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ANNUAL REPORT

OF THE

Department of Public Health

PROVINCE OF ALBERTA

INCLUDING

Vital Statistics Branch 1932

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON:
PRINTED BY W. D. McLEAN, KING'S PRINTER
1983

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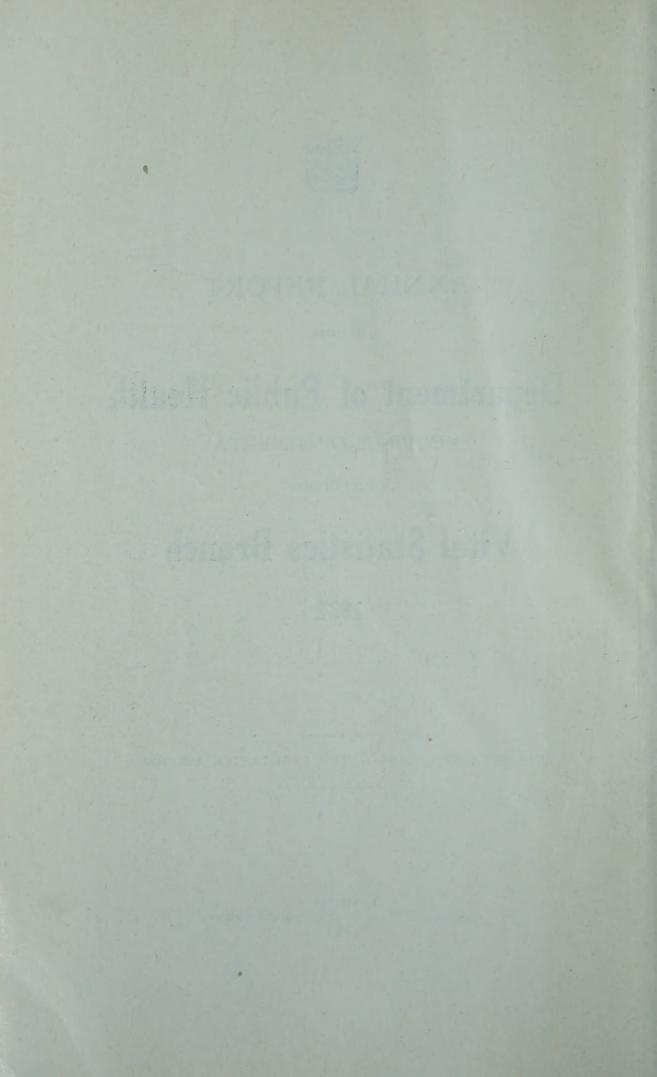
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Edmonton, December 19, 1933.

To His Honour

W. D. Walsh,
Lieutenant Governor of the Province of Alberta.

SIR,-

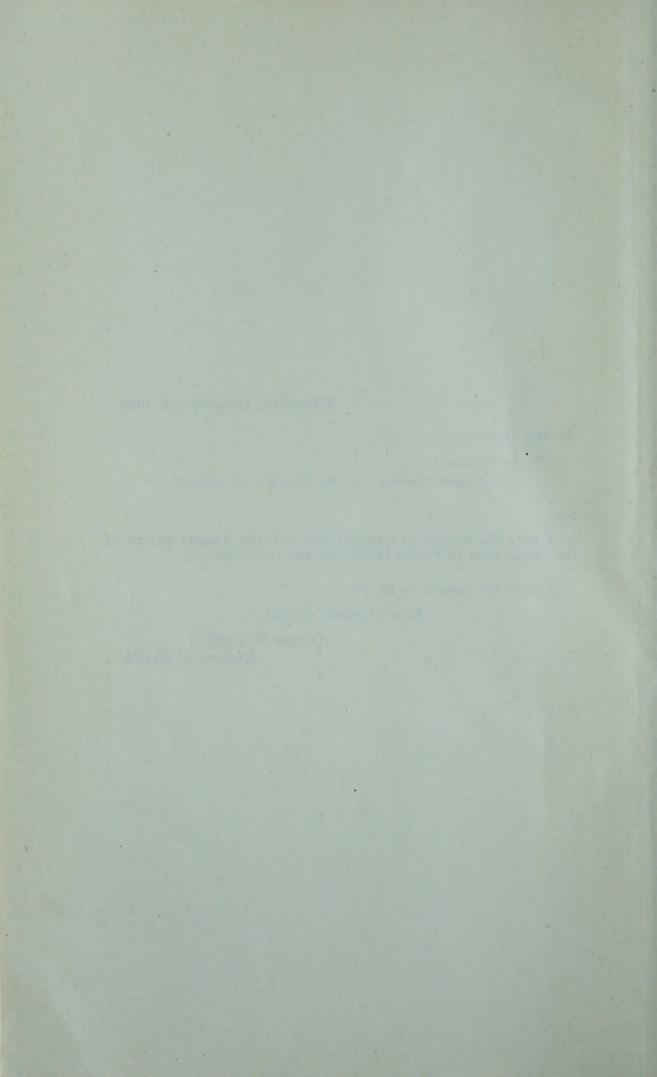
I have the honour to transmit herewith the Annual Report of the Department of Public Health for the year 1932.

I have the honour to be, Sir,

Your obedient servant,

George Hoadley,

Minister of Health.



Edmonton, December 19, 1933.

To the Honourable George Hoadley, Minister of Health,

Parliament Buildings, Edmonton, Alberta.

SIR,—

I have the honour to submit herewith the Fourteenth Annual Report of the Department of Health.

I have the honour to be, Sir,

Your obedient servant,

Malcolm R. Bow, M.D., C.M., D.P.H., Deputy Minister.

FOURTEENTH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH, INCLUDING THE VITAL STATISTICS REPORT

THE DEPARTMENT

Divisions:

- 1. Communicable Diseases.
- Public Health Education. 2.
- 3. Hospital Inspection.
- 4. Laboratory.
- Public Health Nursing. 5.
- Municipal Hospitals. 6.
- Social Hygiene. 7.
- Sanitary Engineering and Sanitation. 8.
- Dental Hygiene. 9.
- Mental Health. 10.
- Institutions: Provincial Mental Hospital, Ponoka. 11. Provincial Mental Institute, Oliver. Provincial Training School, Red Deer. Psychopathic Ward, University Hospital. Central Alberta Sanatorium, Calgary.
- Vital Statistics Division. 12.
- General Administration. 13.

A report giving a summary of the work of each of these divisions is included herewith.

THE ADVISORY COMMITTEE OF HEALTH.

The Advisory Committee of Health met on February 3, 1932, with the following members in attendance:

Mrs. J. H. Field, Spurfield, representing Rural Women. Mrs. W. J. Ross, Edmonton, representing Urban Women. Dr. W. A. Wilson, Edmonton, representing the Medical profession

at large. Dr. Geo. R. Johnson, Calgary, representing the College of Physicians and Surgeons.

Dr. D. Gow, Calgary, representing Medical Officers of Health.
Mr. A. T. Stephenson, Red Deer, representing Municipal Hospitals.
Dr. E. L. Pope, Edmonton, representing the Faculty of Medicine,
University of Alberta.
Mr. E. E. Roper, Edmonton, representing Urban Laymen.
Dr. M. R. Bow, Deputy Minister of Health, Chairman.

The following questions were discussed by the Committee:

Report of the work of the Red Deer and Okotoks-High River Full Time Health Districts.

Infantile Mortality. Maternal Mortality.

Midwives.

Cancer. Proposed arrangement for accommodation of tuberculosis cases.

Report of the work of the Eugenics Board.

The importance of maintaining health appropriations for preventive purposes under present economic conditions.

Resolutions adopted by the Committee:

- 1. Nutrition.—Resolved that the various members of the Committee bring to the attention of the organizations with which they are identified, the vital importance of children being given a well balanced diet during these trying times.
- 2. Maternal Mortality.—Resolved that Dr. Geo. R. Johnson, Registrar, bring to the attention of the College of Physicians and Surgeons the question of maternal mortality with the suggestion that a committee be appointed to inquire into this question, and also, if possible, secure the co-operation of the district medical societies in making inquiry into all deaths from this cause and report.
- 3. It was further resolved that all hospitals in receipt of government aid and in which there is a training school for nurses be required to have all pupil nurses and all new staff nurses appointed given physical examinations, including X-ray examinations of the chest, before such pupil nurses or new staff nurses are accepted. And further, that X-ray examinations be done at intervals of twelve months throughout the period of training, and that a final examination be done before the time of graduation.
- 4. Resolved that the importance of maintaining existing health appropriations for preventive purposes under present economic conditions be recognized, and that the Provincial Government and the municipalities be urged to continue preventive services without reduction.

REGULATIONS PASSED DURING THE YEAR

Additions to the Public Health Regulations re cancer, February 13, 1932, under which cancer is made a notifiable disease.

LEGISLATION PASSED DURING THE YEAR

The Municipal Hospitals Act, 1929, Amendment Act, 1932.

An amendment provides that there be a uniform per diem fee for all hospital supporters, and does away with the differentiation now possible between extra-urban taxpayers and other taxpayers.

Provision is made for the calling of a meeting of the ratepayers of a hospital district upon the request in writing of 25 per cent. of the ratepayers of the district, or of one contributing council, instead of upon the request in writing of a majority of the contributing councils.

The board is empowered to pledge monies due to the board to secure the repayment of loans borrowed by the board.

A hospital board with the approval of the Board of Public Utilities Commissioners is given authority to compromise with a contributing council in respect of levies which such council may or ought to have made at any time prior to 1930.

The Public Health Act Amendment Act, 1932.

As the Act stands one-half of the costs of a public health unit scheme is chargeable to the municipalities interested. An amendment provides that the scheme shall set out what proportion of the costs shall be borne by such municipalities.

The Hospitals Act Amendment Act, 1932.

In case an indigent sick person is admitted into and receives hospital treatment without a written order from the local authority, such local authority shall nevertheless be liable, if in the opinion of the Superintendent or Medical Officer of the hospital, certified to the local authority by registered notice in given form that the case was one of urgent and sudden necessity; and if any dispute arises as to whether or not any case was one of urgent and sudden necessity, the question shall be referred to the Minister, whose decision shall be final.

Subsection (1) of Section 7 of the Act has been struck out and

the following substituted therefor:

"Every local authority shall be liable for the hospital treatment of any indigent sick person in any case in which such person has been admitted to a hospital in conformity to the provisions of the next preceding section."

When a local authority has entered into a contract with a hospital for the accommodation and care of indigent persons and such indigent person is accommodated and cared for in any other hospital, the last mentioned hospital shall be entitled to recover from the local authority for the accommodation and care of such indigent, an amount calculated on the public ward rate charged by such hospital, or at two dollars and fifty cents per day, whichever is the lesser.

Provided that a hospital board shall only be entitled to such benefit if it notifies, in writing, the local authority of the accommodation and care of such indigent person as soon as reasonably possible.

The Minister is given authority to enter into agreements with extra-provincial hospitals for the hospitalization of indigent sick persons who are residents of a hospital district in Alberta, upon other provinces making similar reciprocal provisions.

The Minister may at any time enter into an agreement with the board of any hospital for the setting aside of a portion of such

hospital for cases of tuberculosis.

The Minister may at any time enter into an agreement with any

person for the reception of specified cases of tuberculosis.

The liability of a local authority for the care and reception of any person suffering from tuberculosis received into a hospital or any other place in pursuance of any agreement, shall not exceed the amount which would have been payable if such person had been a patient in the Sanatorium.

TABLE No. 1

DEPARTMENT OF PUBLIC HEALTH

FI	NANCI	AL STATEMENT FOR THE FISCA	L YEAR END	DING MARCH	31st, 1933
	Vote.	Name.	Salaries.	Expenses.	Revenue.
1.	605.	Communicable Diseases	\$ 4,250.00	\$ 8,814.00	\$ 309.74
2.	602.	Public Health Education	3 400.00	1,598.42	
3.	603.	Hospital Inspection	4,900.00	1.833.70	360.00
٥.	000.	Grants		400,743.10	2
4.		Laboratory	***************************************		0,111/
5.	606.	Public Health Nursing and			
0.	000.	Clinics	29,465.75	9,151.42	2.799.22
6.	608.	Municipal Hospitals	3,884.25	1,789.12	**********
0.	000	Charity and Relief	1	F	
7.	610.	Social Hygiene	9.097.98	9,531.90	3,252.11
8.	605.	Sanitary Engineering and Sani-			
0.	000.	tation	9,285.70	26,328.82	800.20
9.		Dental Hygiene			***********
10.	622.	Mental Hygiene	8,867.90	11,368.19	
11.	024.	Institutions	2 5 2		*******
11.	614.	Provincial Mental Hospital,			
	0 2 20	Ponoka	276,470.50	109,704.80	138,715.81
	612.	Provincial Mental Institute,			
		Oliver	74,445.62	30,097.26	30,428.69
	613.	Provincial Training School,			0 7 7 0 7 1 0
		Red Deer	49,683.87	21,587.64	37,525.13
	622.	Psychopathic Ward, University		4040045	1 550 00
		Hospital	1975/4	16,160.15	1,559.00
	604.	Central Alberta Sanatorium,		F# 00F #4	100 401 00
		Calgary	116,813.71	57,895.74	123,461.69
		University Hospital		20,000.00	30,261.86
12.	607.	Vital Statistics	15,465.17	6,556.66	30,201.80
		Grants to Homes		3,500.00	1,670.60
		Administration	13,750.00	9,251.07	1,070.00
			\$619,780.41	\$745 911.99	\$371,144.05
				ę 1	265 602 40
Ţ	TAL	-Public Health Administration		Ф.1,	371,144.05
ľ	UTAL	-Public Health Revenue	*******************		
η	ОТАТ	-Public Health Net Cost		\$	994,548.35
-	, ,				

GENERAL HEALTH CONDITIONS

While the economic situation has been even more difficult in 1932 than in the two preceding years, the favourable health conditions experienced in 1930 and 1931 have been well maintained. It is a remarkable fact that during this period of depression the most satisfactory health conditions in the history of the Province have been experienced. While some of the communicable diseases showed an increased incidence over the low incidence rates of 1931, there was, generally speaking, freedom from any serious outbreaks during the year. An outbreak of influenza of a milder type than that experienced in previous years developed in the southern part of the Province in November, and extended over a large section of the Province. Reference to the Vital Statistics Report indicates that 16,990 births, 5,054 marriages and 5,521 deaths were registered in 1932. The birth rate was 22.96 per 1,000 as compared with 23.57, the rate for 1931. The death rate was 7.46 per 1,000 as compared with 7.24, the rate for 1931.

The combined death rate (deaths per 100,000 population) for diphtheria, scarlet fever, measles and whooping cough was 8.3, as compared with the rate of 9.8 for 1931 and 20.5, the average rate for the last five years. Whooping cough accounted for 34 deaths, 54% of the 62 deaths due to these four diseases. The remarkable reduction in the number of cases of, and deaths from diphtheria in recent years, which was noted in the report of last year, has continued. In 1932 only 51 cases of diphtheria were reported, and ten deaths were registered as due to this disease, giving a diphtheria death rate of 1.3 per 100,000 population, the lowest rate ever recorded in the Province.

Diphtheria is a disease which can be practically eliminated as a cause of death, if we will see that all children and particularly all pre-school children are immunized. The toxoid required for immunization purposes is supplied free of charge by the Department. Much good work in diphtheria immunization has been done in the cities, in the two health units and in some of the towns and rural districts, but there are many thousand children unprotected, especially in the rural districts. In such districts outbreaks of diphtheria and deaths from this disease will be experienced sooner or later.

Only one case of smallpox was reported during the year. While this is a highly satisfactory record, the fact that we have a very large unvaccinated population in Alberta gives us cause for real concern. It has been demonstrated over and over again that when a severe type of smallpox breaks out in an unvaccinated population, the result is disastrous. Many of our outlying districts are much better protected against smallpox than our urban centres and rural municipalities. During 1932, 2,525 individuals in the more outlying districts were vaccinated by an inspector, who devotes part of his time to this work.

Fifty-two cases of typhoid fever were reported and 9 deaths occurred from this disease, giving a typhoid death rate of 1.2 per 100,000 for the year. This is the lowest rate in the history of the Province. The following table shows the number of cases reported, the number of deaths and the death rate from this disease from 1908 to 1932:

			Death Rate
Year.	Cases.	Deaths.	per 100,000
1908	529	100	37.5
1909	713	121	39.6
	953	192	56.4
1910	665	164	44.0
1911	866	207	51.8
1912	638	151	35.6
1913		79	15.0
1914	347		12.2
1915	284	58	
1916	308	63	12.7
1917	127	42	8.1
1918	130	55	10.2
1919	187	67	12.0
1920	285	84	14.8
1921	177	65	11.0
1922	169	57	9.6
1923	155	43	7.3
	98	24	4.0
	127	27	4.5
1925	127	16	2.6
1926	74	21	3.3
1927	122	26	3.9
1928	114	26	3.8
1929	69	17	2.4
1930		16	2.1
1931	45	9	1.2
1932	52		1.4
1933	40	G.	

Contaminated water supplies, particularly in the irrigated districts, were responsible for most of the typhoid cases reported in 1932. It cannot be too strongly emphasized that water from streams and irrigation ditches must be considered unsafe and be boiled or chlorinated before being used, if the menace of typhoid fever in these districts is to be eliminated.

Influenza accounted for 297 deaths and pneumonia (all forms) for 362 deaths in 1932. We would again direct attention to the importance of proper ventilation and humidification of our homes, offices and schools during the winter months. "Indoor living," lack of exercise and lack of sunlight during the winter months constitute a serious health hazard.

Tuberculosis.

There were 401 deaths reported due to tuberculosis (all forms) in 1932, as compared with 385 deaths in 1931. Of this number, 313 were deaths from pulmonary tuberculosis. The death rate from tuberculosis was 54.18 per 100,000 population and 42.49 from the pulmonary type of the disease. Excluding the Indian population, the total number of deaths from all forms of tuberculosis was 238, and the death rate per 100,000 population was 32.16.

Two hundred and ten beds is the total accommodation available in the Sanatorium. In view of the length of time patients requiring Sanatorium treatment must wait for accommodation, and in view of the risk of infection to other members of the family and to the community, this is the most serious public health problem facing us today.

Cancer.

There were 539 deaths from cancer in 1932, an increase of 98 deaths over the number registered in 1931. The cancer death rate was 72.8 per 100,00 population, as compared with 60.0, the rate for 1931. Cancer accounted for 9.76% of the total deaths registered in 1932, taking second place as a cause of death. In common with other parts of the world, there has been a marked increase in the number of deaths from cancer in Alberta in recent years. More of our people are reaching the age period in which the disease is most prevalent. Not less than one-third of the deaths from cancer could be prevented if all cases were recognized in the earliest stages, and promptly and effectively treated. The fear of cancer must be removed, and the people educated to seek competent medical advice at the first sign of symptoms or indications which may mark the beginning of this disease, if these lives are to be saved.

The Department has continued to co-operate with the Cancer Committee of the Alberta Medical Association as in previous years. Cancer was by Order-in-Council made a notifiable disease on February 13, 1932, and 542 cases were reported by physicians and hospitals. A summary of the information submitted in these reports has been prepared by the Department. The Department has also co-operated with the Cancer Committee in its educational work, stressing the vital importance of the early recognition and the prompt and effective treatment of this disease.

Infantile Mortality Rate.

There were 997 deaths of children under one year of age in 1932, as compared with 1,197 such deaths in 1931, a reduction of 200 deaths. The infantile mortality rate for the year 1932 was 58.62, as compared with the rate of 69.4 for 1931 and 72.22, the average for the five-year period 1927 to 1931. As indicated in the last annual report, the infantile mortality rate for the rural districts and the towns and villages is, generally speaking, much higher than the rate for the larger cities in which provision has been made for efficient full-time public health service. In 1932 the average rate for the rural districts was 63.0, and for the cities of the Province 49.3.

Of the 997 deaths of children under one year of age, 404 occurred within the first week of life and 547 within the first month,

The principal causes of infant deaths were as follows:

 Prematurity
 279
 Gastro-intestinal
 136

 Respiratory
 156
 Acute Contagious
 112

The urgent need of well organized full-time local health service in our rural districts and smaller urban centres is made evident by a study of the causes of infantile deaths in these districts.

Maternal Mortality.

In 1932 sixty-four deaths of women were registered as due to conditions associated with childbirth. This represents the deaths of 3.76 mothers for every 1,000 children born. This is the lowest maternal death rate recorded in the history of the Province. The rate for each of the years 1927 to 1932 is as follows:

Yea	Rate.	Year.	Rate.
1927	 6.38	1930	
1928	 6.75	1931	5.04
1929	 7.26	1932	2 76

The problem of maternal mortality involves public health, social and economic questions, the solution of which must be found if many lives now sacrificed are to be saved. The need for more adequate and more efficient pre-natal, natal and post-natal care, particularly in our rural districts is apparent from a study of this problem.

FULL-TIME HEALTH DISTRICTS

The work of the Red Deer and the Okotoks-High River Fulltime Health Districts, in which public health service was instituted on June 1st, 1931, has been carried on along much the same lines as in 1931. The staff of each of these units is composed of a medical officer of health, who has received special training to qualify him for his duties, two graduate nurses with special training in public health, one qualified sanitary inspector, whose time is divided between the two units, and a stenographer, who is responsible for the office work and records. Through the assistance of the Rockefeller Foundation in granting the fellowships, each medical officer of health was enabled to complete the public health course at the University of Toronto this year, and qualify for the diploma of public health.

These two health units were established for the purpose of demonstrating the value of the service rendered by a thoroughly qualified public health staff in dealing with the health problems of our rural districts and smaller urban centres. Each health unit has been fortunate in securing a well qualified and competent staff, and as a result the work of each unit has been maintained at a high level of efficiency since its inception.

The following is a brief summary of the work of each of the full-time health districts for the year 1932:

EDITORETONAT	01 / 1 771 / 71	
EDUCATIONAL:	Okotoks-High River	
Letters		1,939
Reports		90
Conferences	. 8	18
CHILD HYGIENE:		
Babies and pre-school children examined	. 537	419
SANITATION:		
Inspections, public and private premises	. 589	517
LIFE EXTENSION:		
Examinations	. 113	139
COMMUNICABLE DISEASES:		
Visits to cases, carriers, suspects		483
Cases isolated	. 216	172
Contacts quarantined	. 25	69

IMMUNIZATION:		
Dick tests	7	7
Schick tests	115	299
Toxoid reaction tests	597	1,618
Toxoid inoculations	4,142	5,411
Smallpox vaccinations	581	2,370
Typhoid inoculations	36	10
SCHOOLS:		
Visits to schools	314	377
Children examined	2,482	1,515
Follow-up visits to homes	187	1,282
LABORATORY:		
Examinations	252	424

PUBLIC HEALTH EDUCATIONAL WORK.

This work has been carried on in much the same manner as in previous years, but owing to the reduction in our appropriation it has been necessary to reduce this service. Lectures, exhibits, demonstrations, radio talks and health bulletins have been utilized as a means of emphasizing the necessity for and the value of preventive health measures.

During the year the lecturer addressed 167 meetings in 101 different places, at which the total attendance was 28,992.

Perhaps the outstanding feature of the work this year was the series of thirty meetings held in a New Canadian district north-east of Edmonton, and in which the response was most gratifying.

The demand for health educational service increases from year to year, but faced with the necessity of reducing expenditures it has been impossible to extend these services to many districts in which the need is great.

PUBLIC HEALTH NURSING AND CHILD WELFARE

A public health nurse is in charge of each of the following Child Welfare Clinics: Edmonton, Calgary and Medicine Hat, and devotes her whole time to the work of the clinic. Local physicians, who give special attention to pediatrics, are in attendance at these clinics weekly. More than 12,000 children were examined at these three clinics, and over 8,000 home visits were made by the nurses in charge. Owing to the reduction in expenditures it was necessary to reduce the service of the Travelling Child Welfare Clinic. In 1932 this clinic visited 67 centres and examined 1,928 babies and children of pre-school age.

As in previous years, public health nurses continued to serve each of the following municipalities: Norma M.D. No. 15, with Vegreville as a centre; Marquis M.D. No. 157, with Milo as a centre; and Richdale M.D. No. 274, with Stanmore as a centre. In each of these districts a generalized public health nursing service is

being rendered.

During the year district physicians provided service in three outlying districts, and district nurses in six outlying districts. The following districts were served: Fort Vermilion, Notikewin, Wanham, Worsley, Valley View, Jarvie, Kinuso, Pendryl and Peers. These physicians and nurses are called on to exhibit a high degree of initiative, courage and skill in their work in pioneer communities, remote from hospital and medical service.

A detailed report of the work of the Public Health Nursing Division is submitted in the report of this division.

SOCIAL HYGIENE

The work of this division has been very heavy during the year. As a result of economic conditions there has been a marked increase in the number of patients under treatment at the various clinics in recent years. Many patients, who had previously been under the care of private physicians, are now without the means to pay for such service, and seek treatment at the clinic.

The total number of cases of syphilis under treatment at all Provincial Clinics in 1932 was 879, and the total number of cases of gonorrhoea 1,056.

Continuing the work undertaken in 1931, special attention has been directed to the early detection of neurosyphilis and cardio-vascular syphilis, the two types of the disease which cause the greatest economic loss through incapacitation and early death.

THE PROVINCIAL LABORATORY

A review of the work of the Provincial Laboratory as submitted by the Provincial Bacteriologist, indicates that during the year 64,792 examinations were carried out, representing an increase of 7,574 examinations over 1931. The Provincial Laboratory is rendering a highly efficient service to local boards of health, hospitals and physicians, which is of prime importance in safeguarding the public health. The work of the Provincial Laboratory includes the examination of water, ice, sewage, milk; the examinations required in connection with communicable diseases, the examinations of pathological material submitted by hospitals, chicken and cattle blood examinations, medico-legal examinations, post-mortem examinations, and many other examinations too numerous to mention. In addition the Provincial Laboratory distributes all vaccines and sera used in the prevention and treatment of communicable disease for the Department.

Some idea of the value of this service is obtained when one considers the commercial value of the work done free of charge by the laboratory in 1932. If only minimum charges were made for the work, the total value of the service rendered in 1932 was \$144,960.20.

SANITARY ENGINEERING AND SANITATION

All plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants, as required under The Public Health Act, were examined and, where approved, certificates have been issued for same. A statement of the works for which approval has been given will be found in the report of the Sanitary Engineering Division.

It is necessary to again emphasize the vital importance of municipalities taking the necessary steps to ensure the safety of public water supplies. As has been pointed out in another section of this report, untreated water drawn from running streams and irrigation ditches is unsafe, and municipal authorities should, in their own interests as well as in the interests of their citizens, make certain that such steps are taken as are necessary to provide safe water supplies. The same thing applies in the case of municipal milk supplies. No municipal authority can afford to permit the sale of impure milk to its citizens. Failure to properly supervise

and control milk supplies has been responsible for many serious milk-borne epidemics.

Two hundred and thirty-two districts were visited and inspected by the sanitary inspectors, and of these 135 were inspected a second time. Sixty-eight lumber, tie, sawmill and mining camps were inspected. There is a great need for more adequate service in this field as soon as financial conditions make this possible. Municipal authorities have taken full advantage of the inspectors' services, but owing to the very limited staff available it has been impossible to give sufficient time to follow-up work.

DENTAL HYGIENE

On account of the reduction in expenditures made necessary by the reduced budget, the Travelling Clinic was not operated in 1932. There has been a great demand for this service, more especially from th outlying districts. Dental service has been provided for the patients in all provincial institutions, as in previous years.

Hospital Inspection

There are 89 approved hospitals in the Province in receipt of the Government grant. Seventy-four private hospitals were licensed under the provisions of The Private Hospitals Act, of which fifteen were baby shelters. All hospitals were inspected during the year, with the exception of some isolation hospitals, which were closed on the occasion of the hospital inspector's visit, and seven hospitals in outlying districts. The total number of operations reported in hospitals in 1932 was 21,657, and the number of deaths following operations 346, giving a mortality rate of 1.6%. earnest effort has been made by the management and staffs of the hospitals to carry out the requirements of the hospital regulations. Economic conditions have been even more difficult for hospitals than in previous years. The problem of maintaining efficient hospital service under existing conditions has faced every board, and the hospitals deserve great credit for the manner in which they have carried on.

The total bed capacity of the approved hospitals, including the Central Alberta Sanatorium, is 4.481, divided as follows:

General	2,413	Infants	561
Maternity	630	Isolation	290
Children	295	Tuberculosis	292

This represents one bed for every 167 of the population, or 5.9 beds per 1,000 population; 66,592 patients were treated during the year, which number represents 8.8% of the population. The average stay in hospital was 13 days, but if Sanatorium, Isolation, Orthopaedic and S.C.R. cases were excluded, the average stay in hospital was 11.1 days.

The average cost per patient per day (excluding capital charges) for all approved hospitals was \$3.14, as compared with \$3.35, the average for 1931.

Statements giving detailed statistical information concerning the administration of approved hospitals will be found in the report of the Hospitals Division.

MUNICIPAL HOSPITALS

The same number of municipal hospitals were in operation as in 1931, viz., 22. These 22 municipal hospitals provide accommodation for 733 patients (including babies), and 15,542 patients were treated during the year. A detailed statement of the operation of municipal hospitals will be found in the statistical report of the Hospitals Division.

Municipal hospital boards have been confronted with even more difficult conditions this year than in 1930 and 1931, but have met their difficulties courageously, and have endeavoured to give the best service possible with the funds available.

CENTRAL ALBERTA SANATORIUM

The medical staff of the Sanatorium has provided the diagnostic service for the weekly tuberculosis clinics held at the Sanatorium and in Calgary, as well as for the Edmonton Clinic, which is held fortnightly. The annual tuberculosis survey was conducted at the Blood Indian Reserve, near Cardston, at which 276 patients were examined. For the purpose of conducting clinics, three visits were made by members of the Sanatorium staff to Lethbridge and two to Drumheller and Medicine Hat. A clinic was also held in High River in co-operation with the Okotoks-High River Full-time Health District.

The travelling diagnostician visited 47 other points in the Province for the purpose of conducting clinics. A total of 1,606 persons were examined at all clinics, and 127 new cases of tuberculosis were diagnosed. One does not need to stress the importance of such a service to the public health, but to make this service fully effective increased Sanatorium accommodation is urgently required.

MENTAL HEALTH DIVISION

TABLE No. 2

MOVEMENT OF PATIENTS—MENTAL INSTITUTIONS, 1932

		Books 1, 1932	Admis during		Disch during		Dea during		On B Dec. 31	
	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental Deficients	Insane	Mental
Oliver	304	12	118	6	9	0	6	1	407	17
Ponoka	1,157	38 190	472	27 25	406	18	61	0 7	1,162	56 190
Ward	10	0	115	5	107	6	2	0	15	0
Total	1,471	240	705	63	522	33	69	8	1,584	263

NOTE: Of the Ponoka discharges under "insane," 68 cases which were not psychotic are included, i.e., they came to Ponoka for malarial treatment, or were committed as drug addicts, observation cases, etc. The discharges from Ponoka also include 118 transfers to the Provincial Mental Institute, Oliver—116 insane and 2 mental defectives.

The 113 discharges from the Psychopathic Ward include 44 transfers to the Mental Institutions, Ponoka and Oliver. Only one transfer was that of a mental defective.

Of the 124 admissions to the Provincial Mental Institute, Oliver, 118 were on transfers from the Provincial Mental Hospital, Ponoka—116 insane and 2 mental defectives.

As indicated in the preceding table there was an increase of 135 in the patient population in Provincial institutions during the year. As the ratio of patients to population in Alberta is considerably below the average for Canada, and as the ratio tends to become relatively constant, a further increase in the number of patients applying for admission to the mental hospitals is to be expected.

The transfer of 118 male patients from the Provincial Mental Hospital at Ponoka to the Mental Institute at Oliver during the year materially relieved the situation in so far as accommodation for male patients at Ponoka is concerned. The increasing state of overcrowding in the women's wards at Ponoka is creating difficulties in administration. This problem has been given careful consideration with a view to a solution which will relieve the

situation early in the new year.

The training school for mental defectives at Red Deer continues filled to the limit of its capacity, with a population of 190 patients, 74.9% of these being the low grade type of patients, who require a maximum of nursing care and supervision. The need for increased accommodation is urgent, both for the low grade type requiring custodial care and for the higher grade type, many of whom by proper methods of training could be rescued from becoming community liabilities, and made useful members of society.

With the transfer of 118 patients from the Mental Hospital at Ponoka to the Mental Institute at Oliver, and the admission of 6 new patients, the population of Oliver was increased to 424, the maximum capacity. These patients are practically all of the chronic

type.

During the year 120 patients were admitted to the Psychopathic Ward, and in addition 18 patients were in residence for a day or two for observation and examination. The opening of the Psychopathic Ward has marked an important forward step, not only serving a most important function in making available modern methods of treatment for those suffering from certain psychiatric conditions, but also providing a centre for the observation of cases referred for examination by physicians and magistrates. One hundred and fifty-one consultations, exclusive of re-examinations, have been carried out by the director of this service. Dr. C. A. Baragar.

Occupational therapy has been stressed in all mental institutions, and an earnest effort has been made to develop this most

important service to a key position in our institutions.

A review of the manifold activities of our mental institutions is contained in the reports submitted by the Commissioner and the Superintendents.

MENTAL HYGIENE CLINICS

The work of these clinics, established in Edmonton, Calgary and Lethbridge, has been conducted along the same lines as in previous years. To these clinics patients have come for examination, either voluntarily or referred by physicians, magistrates, welfare and other organizations. These clinics are serving a most useful purpose, and there is a great need for the extension of this service as soon as financial conditions will permit.

THE EUGENICS BOARD

The work of this board is carried on under the authority of The Sexual Sterilization Act, which was assented to on March 21st, 1928.

During the year four meetings of the board were held, with sessions at each of the Provincial institutions, and also at Edmonton, Calgary and Lethbridge, as outlined in the report of the board included herewith.

During the year 63 cases (20 male and 43 female) were presented to and passed by the Board. This brings the number of cases which have been passed since the Board was constituted in 1929 to 197 (52 male and 145 female). During the year 48 operations (14 male and 34 female) were performed, bringing the total number of operations performed up to the end of 1932 to 156, of which 35 were male and 121 female. This work has gone forward most satisfactorily and without incident. The Board has discharged its responsibilities in a most careful and efficient manner. The need for such legislation as is in effect in Alberta is becoming more evident each year, both in our own country and abroad.

GENERAL ADMINISTRATION

A statement of expenditures and revenue for the fiscal year ending March 31st, 1933, is included in this report. An analysis of this statement indicates that out of a total expenditure of \$1,365,692.40, approximately \$1,185,000.00 was expended for the maintenance and operation of Provincial institutions, for grants to approved hospitals and homes and other treatment services. Only approximately \$180,000.00, or 13% of the total funds, was expended for preventive public health activities. Expressed in another way, this means that out of every dollar expended by the Department in 1932, not more than 13 cents was spent on preventive measures. There is a great need for the expansion of preventive public health work, as has been stressed in other sections of this report, and it is to be sincerely hoped that improved economic conditions may soon make this possible.

All of which is respectfully submitted.

Malcolm R. Bow, M.D., C.M., D.P.H., Deputy Minister of Public Health.

Communicable Disease Division

(A. C. McGugan, M.D., Director)

This Division is particularly concerned with the prevention of disease, and the usual educational work has been done throughout the year through the distribution of monthly bulletins to local boards of health and public lectures.

Assistance in the diagnosis of cases of suspected communicable diseases has been provided at the request of the attending physicians.

Where local situations, which required an epidemiological study have developed, this branch has co-operated with local health authorities in an attempt to locate the source of outbreaks of communicable diseases which threatened to reach serious proportions.

In addition to the work usually carried on by communicable disease divisions, Mr. Zalizniak, health inspector, has done a considerable amount of public health work in districts so remote from medical doctors that a public health service would be difficult to obtain. In these districts Mr. Zalizniak has vaccinated 2,525 persons against smallpox. He has immunized 2,903 children against diphtheria, 727 of whom were of pre-school age. During the year he has administered 8,709 doses of toxoid and has done reaction tests on 600 children. He has also lectured at twenty points to approximately 2,300 people.

In connection with the vital statistics work, Mr. Zalizniak has visited 64 local registrars and 93 cemetery caretakers.

TABLE No. 1								
COMMUNICABLE	DISEASES	AS	REPORTED	FOR	1931	AND	1932	

	1931.	1932.		1931.	1932.
Acute Anterior Poliomyelitis	23	39	Mumps	481	652
Meningococcic Meningitis	6	2	Scarlet Fever	438	202
Chickenpox			Pulmonary Tuberculosis		259
Diphtheria	151	51	Smallpox		1
Encephalitis Lethargica	1	3	Typhoid Fever		52
Erysipelas	54	36	Paratyphoid Fever		6
Rubella		267	Whooping Cough	451	665
Measles	720	7382			

TABLE No. 2

TOTAL DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA DURING THE YEAR 1932 (INDIANS INCLUDED)

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Fever 9

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TABLE No. 3

DEATHS DUE TO COMMUNICABLE DISEASES IN THE CITIES OF EDMONTON AND CALGARY DURING 1932 EDMONTON

Pneumonia (all forms)	48	Meningococcic Meningitis	1
Influenza (all forms)	47	Typhoid Fever	1
Pulmonary Tuberculosis	48	Erysipelas	4
Tuberculosis (all other forms)	20	Scarlet Fever	
Diphtheria	1	Encephalitis Lethargica	
Whooping Cough		Measles	4
Poliomyelitis		Smallpox	-
Mumns	-		

	CALG	ARY			
Pneumonia (all forms) Influenza (all forms) Pulmonary Tuberculosis Tuberculosis (all other forms) Diphtheria Whooping Cough Poliomyelitis Mumps	48 40 17 8 	Meningococcic Meningitis 2 Typhoid Fever 2 Erysipelas 5 Scarlet Fever 1 Encephalitis Lethargica 1 Measles 4 Smallpox -			
	TABLE I	No. 4			
DEATHS DUE TO COMMUNICABLE VILLAGES AND RURAL	E DISEAS DISTRIC	SES IN THE SMALLER CITIES, TOWNS, TS DURING THE YEAR 1932			
Pneumonia (all forms) Influenza (all forms) Pulmonary Tuberculosis Tuberculosis (all other forms) Diphtheria Whooping Cough Poliomyelitis Mumps	264 210 248 60 9 30 6	Meningococci Meningitis 5 Typhoid Fever 6 Erysipelas 4 Scarlet Fever 3 Encephalitis Lethargica 2 Measles 6 Smallpox -			
	TABLE I	No. 5			
INDIAN DEATHS DUE TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA DURING 1982					
Pneumonia (all forms) Influenza (all forms) Pulmonary Tuberculosis Tuberculosis (all other forms) Diphtheria Whooping Cough Poliomyelitis Mumps	20 21 133 30 	Meningococcic Meningitis — Typhoid Fever — Erysipelas 1 Scarlet Fever — Encephalitis: Lethargica — Measles 4 Smallpox —			

TYPHOID FEVER

52 cases—9 deaths

Typhoid fever shows a slight increase for the year. Many of the cases which have occurred can be attributed to the use of untreated water from open streams. As long as raw water is used from open streams and irrigation ditches, we can expect little improvement in the morbidity and mortality rates in this disease. As the case fatality rate in typhoid fever is ten, it would appear that 90 cases should have been reported in Alberta in 1932. Apparently many cases have not been recognized. These constitute a menace, as probably a number have not been under the care of a physician, and have been released without any assurance that they are not carriers.

One carrier, careless in his habits, can infect many.

In districts in which typhoid fever is prevalent every individual should be vaccinated at least once every second year.

SCARLET FEVER

202 cases—4 deaths

The total for scarlet fever in 1932 is 46% of the total for 1931. This disease continues to be mild in its course and serious in its complications. Some of the recognized cases appeared to be so mild that proper care in their management was neglected. Some cases have been so mild as to escape recognition. These mild cases and missed cases have been the chief factors in the spread of infection.

SMALLPOX

1 case—0 deaths

The year 1932 was a record one in the history of smallpox in Alberta.

However, it is known that in many districts vaccination has been neglected, and it only requires the introduction of a case in these districts for the disease to become epidemic.

DIPHTHERIA

51 cass—10 deaths

The total for diphtheria in 1932 is 33% of the total for 1931. When every susceptible individual in Alberta has been immunized against diphtheria, we may expect a record for diphtheria such as that of smallpox for the present year.

MENINGOCOCCI MENINGITIS

2 cases—8 deaths

Either deaths from meningitis other than the meningococcic form have been reported as meningococcic or the reporting of meningococcal meningitis has been incomplete.

Pulmonary Tuberculosis

259 cases—313 deaths

The reporting of pulmonary tuberculosis is still far from complete.

Acute Anterior Poliomyelitis

39 cases—14 deaths

There were 16 more cases of poliomyelitis reported in 1932 than in 1931. In 1930 there was an unusually high morbidity rate from this disease, and the low incidence in 1931 was to be expected.

MEASLES

7.382 cases—14 deaths

The morbidity curve for measles reached its peak in 1932. The experience of those centres in which convalescent measles serum has been used shows that the disease may be prevented, or its course controlled.

WHOOPING COUGH

665 cases—34 deaths

Whooping cough is on the increase, and it is expected that 1933 will show an increase over 1932.

Early diagnosis is essential in the control of whooping cough, and if one waits for the characteristic "whoop" before he isolates patients and contacts, there is little chance of controlling the disease.

MORBIDITY, MORTALITY AND CASE FATALITY RATES IN THE MORE COMMON COMMUNICABLE DISEASES

					Case
	Total	Total	Morbidity	Mortality	Fatality
	cases	deaths	rate	rate	rate
Acute Anterior Poliomyelitis	39	14	5.27	1.89	35.89
Cerebro-spinal Meningitis	2	8	0.27	1.08	
Cerebro-spinal Meningitis		360	*****	48.64	
Pneumonia (all forms)		297	*	40.13	
Influenza (all forms)	950	313	35.00	42.29	
Pulmonary Tuberculosis	209	313	33.00	44.40	
Pulmonary Tuberculosis (exclusive of		100		24.32	
Indians)		180	0.00		10.00
Diphtheria	51	10	6.89	1.35	19.60
Whooping Cough	665	34	89.86	4.59	5.11
Smallpox	1		0.13	A	
Typhoid Fever	52	9	7.03	1.21	17.30
Erysipelas	36	13	4.86	1.76	36.11
Scarlet Fever	202	4	27.29	0.54	1.98
Encephalitis Lethargica	3	3	0.40	0.40	100.00
Encephantis Lethargica	652		88.10		173
Mumps	7382	14	997.57	1.89	1.18
Measles	1004	7. 7			

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Cities: Calgary Calmonton Medicine Hat Red Deer Towns and Villages Rural Districts	822450	410 100	9 0 0 0		00 01					11112			1 - 0 00 - 1	2 4 4 6		70 1 20 4	21 246	01 1 4000	8 1 1 1				10 10 18 18
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CHICKENPOX

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Public Health Education Division

(F. T. Cook, Lecturer)

Health education has received the status of a well defined division in many departments of health, both on this continent and in Europe. This has been the aim of this department for some years, and each year brings us nearer to its realization.

By means of exhibits, lectures, pictures, radio talks, displays and correspondence, particular stress has been laid on the fundamentals such as sanitation, nutrition, mental hygiene and the observ-

ance of the well-known rules of hygiene.

During the year monthly bulletins were published by the Communicable Diseases Branch and distributed to local boards of health, and on request to other organizations. The subjects covered included: disease prevention, nutrition, vaccination, anterior poliomyelitis, typhoid fever, school hygiene, the responsibilities of local boards of health, and influenza.

Food exhibits were held at Edmonton Civic Block, Edmonton Annual Exhibition, Calgary City Hall, Calgary District Women's Institute Conference, Red Deer and High River. At these exhibits low cost adequate meals were demonstrated, and proved to be a

popular and useful form of educational work.

Radio talks were given every second week over CKUA during the homemaker's hour programme, by members of the staff, assisted by Dr. C. W. Hurlburt, Dr. H. A. Gilchrist, Dr. R. B. Jenkins, Dr. L. C. Conn, Dr. R. T. Washburn, Dr. W. F. Gillespie, Dr. W. H. Scott and Dr. A. C. Rankin. The subjects of these talks included some aspects of the work of the mental hygiene clinics, how the citizen can assist in the campaign against tuberculosis, what you should know concerning mouth hygiene, the value of city health services to the citizen, how to guard the health of the school child, scarlet fever, some mental hygiene problems, taking care of the heart, etc.

The lecture service was maintained during the year, and meetings were held in most districts of the Province, with the exception of the Peace River country. Thirty meetings were held in a Ukrainian district, northeast of Edmonton. One hundred and sixty-seven meetings were held in 101 different places, at which there was an attendance of 28,992 people. Of these, 21,672 were of school

age, 3,446 were men and 3,975 women.

Through the co-operation of school trustees and principals, as well as school medical and nursing staffs, in Calgary, Lethbridge and Drumheller, health talks illustrated by the use of moving pictures were given to 6,430 school children in the three cities. Requests for the extension of this service have been received from a number of school authorities.

It is interesting to note the continued demand for education on sex and social hygiene. Forty lectures, with moving pictures, were given on some phases of these subjects during the year.

Hospital Inspection Branch and Medical Inspector's Report of Operations

(E. A. Braithwaite, M.D., Inspector of Hospitals)

During the year I visited and inspected 81 of the approved hospitals in the Province. The total number of inspections was 92.

The total number of operations, taken from the weekly hospital operation reports, was 21,657, and the number of deaths following operations was 346.

The following is a list of operations performed and deaths which occurred in the approved, municipal and private hospitals during the year 1932.

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Gastroenterostomy	Approved H.	o r c Death	800 Municipal H.	ooo Deaths	ooo Private H.	ooo Deaths
Hare Lip	7	0	0	0	0	0
Hemorrhoidectomy Herniorrhaphy	140	$\frac{1}{0}$	32	0	0	0
Herniotomy Hydrocele	451 38	6	111	3	3	0
Iliocolostomy	11	2	0	0	0	0
IncisionInjection	286 59	5	64	2	$\frac{2}{0}$	1
Jejunostomy Laminectomy	18	4 3	$\begin{smallmatrix}0\\27\end{smallmatrix}$	0 2	0	0
Laparotomy	118	24	60	7	3	0
Ligation Lithotomy	20 8	0 1	3	0	0	0
Lobectomy	$\begin{smallmatrix} &&4\\120\end{smallmatrix}$	0	0 6	0	0	0
Necrosis	1	0	0	0	0	0
Nephrectomy	$\frac{32}{2}$	$\frac{1}{0}$	1	0	0	0
Neurectomy Orchidectomy	1 18	0	0	0	0	0
Orchotomy	8	0	0	0	0	0
Osteomyelitis Osteoplasty	$\frac{52}{1}$	0	8	0	0	0
Osteotomy Peritonitis	2 7	1 0	0	0	0	0
Phlebectomy	1	0	0	0	0	0
Plaster CastPlastic	101	0	22	0	0	0
Pneumothorax Polypi	1 3	0	0	0	0	0
Proctoscopy Prostatectomy	18	0 9	0	0	0	0
Puncture	68 9	3	9 2	$0 \\ 1$	0	0
Pyloroplasty Removal	11 489	0 5	0 77	0 1	0	0
Repair Resection	172 134	6 5	80 12	0 2	0	0
Sequestrectomy	10	0	2	0	0	0
Sinus Skin Graft	$\frac{4}{30}$	0	$0 \\ 4$	0	$\frac{1}{0}$	0
Splenectomy Suturing	$\begin{smallmatrix} 0\\154\end{smallmatrix}$	$0 \\ 1$	0 54	0	0 2	0
Sympathectomy	32	0	0	0	0	0
Synovectomy Tenoplasty	10	0	0	0	0	0
Tenotomy	6 7	0	0	0	0	0
Thyroidectomy Transfusion	201 155	6	15 14	1 0	1 0	0
Tumor	125	9	36	3	0	0
T.B Urethrotomy	52 3	6	0	0	0	0
Varicocele Vasectomy	16 17	0	0 5	0 1	0	0
Venesection Wounds	1	1	0	0	0	0
	197	6	90	2	1	0
Abortion	430	1	95	1	7	0
Adhesions Cervix	13 93	0	$\begin{smallmatrix} 4\\14\end{smallmatrix}$	0	0	0
Caesarean Section	40	2	4	1	0	0
Cauterization	$\begin{array}{c} 42 \\ 23 \end{array}$	$0 \\ 1$	4	0	0	0
Colpotomy Curretage	7 335	0	$\frac{0}{77}$	0	0	0
Cysts	6	0	0	0	0	0
Dilatation Examination	143 67	1 0	$\begin{array}{c} 55 \\ 21 \end{array}$	0	0	0
Hysterectomy Induction Labour	$174 \\ 4$	$\frac{12}{2}$	19 6	5	2	0
Induction Labour Insertion Radium Oophorectomy	128 69	0 1	0	0	0	0
Ovariotomy	35	0	6	0	0	0
Ovariectomy Panhysterectomy	$\frac{2}{28}$	0	0	0	0	0
Perineorrhaphy Salpingectomy	82 184	0	10 32	0	0	0
Salpingo-oophorectomy	42	0	1	0	0	0
Sterilization Supra pubic	11 5	0	8 2	0	0	0
Trachelorrhaphy Uterus	32 101	0	21 33	0	0	0
	101	U	00	0	0	U

	Approved H.	Deaths	Municipal H.	Deaths	Private H.	Deaths
EYE, EAR, NOSE, THROAT:						
Abscess	13	0	4	0	0	0
Adenoidectomy	24	0	20	0	0	0
Antrum	25	1	0	0	0	0
Cataract	73	0	4	0	0	0
Cautery	10	0	0	0	0	0
Cvsts	2	0	1	0	0	0
Dacryocystectomy	12	0	0	0	0	0
Dilatation	3	0	0	0	0	0
Enucleation Eye	5.7	0	6	0	0	0
Esophagoscopy	1	0	0	0	0	0
Ethmoidectomy	ī	0	0	0	0	0
Examination	8	0	0	0	0	0
Excision	1.0	0	1	0	0	0
Foreign Body	13	0	0	0	0	0
Glaucoma	5	0	0	0	0	0
Granulation	1	0	0	0	0	0
Iridectomy	48	0	0	0	0	0
Laryngoscopy	15	0	0	0	0	0
Mastoidectomy	64	3	7	0	0	0
Paracentesis	6	0	2	0	0	0
Polypi	9	0	0	0	0	0
Pterygium	9	0	0	0	0	0
Submucous Resection	61	0	3	0	0	0
Suturing	2	0	1	ő	1	0
Synectomy	5	0	0	ő	ō	0
	2080	1	567	2	22	ő
Tonsillectomy	7	1	1	0	-0	ő
Tracheotomy	28	0	î	ő	ő	0
Turbinectomy	2034	0	487	0	41	Û
Tonsils and Adenoids	2004	U	401	U	41	V
Total number of operations in hospits Total number of deaths from operation Percentage	ıs				21,657 346 1.5	59

Private Hospitals Division

(Mary E. Conlin, R.N., Inspector)

Seventy-four private hospitals were licensed during the year 1932, 15 of which were licensed as baby shelters. One hundred and thirty-four inspections were made during the year, each baby shelter being visited every four months. In addition 4 institutions were visited in which babies are placed.

Where it has been possible in connection with the private hospital work in the districts I have visited, I have made an inspection of cases receiving free insulin through the Department of Health. During the year 1932, 67 inspections were made in the Province.

Provincial Laboratory

(ALLAN C. RANKIN, C.M.G., M.D., D.P.H.,

Provincial Bacteriologist)

During the time under consideration 64,792 examinations were carried out, an increase of 7,547. We have, as heretofore, received the co-operation of the various University departments, and the work done in the laboratory has been thus supplemented. A certain amount of routine biochemical work has passed through our hands, and been referred to the department of biochemistry. The chemical examinations of water and milk have been carried out by the provincial analyst.

The following table indicates the nature and number of examinations carried out:

TABLE No. 1

WORK PERFORMED IN THE PROVINCIAL LABORATORY DURING THE	YEAR 1932
Post-mortem Examinations	124
Sputum	754
Diphtheria	1,268
Typhoid Feyer	256
Milks	1,637
Waters	1,946
Miscellaneous Examinations	2,346
Mothers' Milk	
Urinalysis	411
Medico-Legal Examinations	
Bloods for the Wassermann Test	17,763
Smears for the Gonococcus	3,759
Icterus Index Determination	52
Van Den Berg Determination	4,432
Pathological Histological Material	
Blood Smear Examinations	
Cerebro-Spinal Fluid Examinations	
Bacteriological Post-mortem Examinations	
Chicken Blood Examinations	21,909
Cattle Blood Examinations	
Typhoid Vaccine (25 c.c. quantity)	218
Autogenous Vaccine (25 c.c. quantity)	65 169
B.C.G. Vaccine (10 c.c. quantity)	
Poliomyelitis Convalescent Serum Ascheim Zondek	59
Aschelm Zondek	99
	64,792
Increase in number of specimens examined	7,574

Table No. 2 shows the number of water and milk, special and blood containers prepared and distributed during the year:

TABLE No. 2	
193	1 1932
Water Containers	9 1,326
Special Containers	2 1,469
Wassermann Containers 12,08	5 16,317
Chicken Blood Containers 16,42	7 21,909

42,021

16,427 31,233

Increase in preparation of 10,788 containers.

The following table shows the number of cubic centimeters of autogenous and other vaccines prepared and distributed during the year:

TABLE No. 3

	1931	1932
Typhoid Vaccine	1,010	5,450 c.c.
Autogenous Vaccine	1,975	1,625 c.c.
B.C.G. Vaccine	1,850	1,690 c.c.
Poliomyelitis Convalescent Serum	1,095	2,130 c.c.
		_

10,895 c.c. Increase in the preparation and distribution of 4,965 c.c.'s vaccines and serums. Table No. 4 shows the detail of some of the work done by the laboratory in relation to the control of infectious diseases:

				TABLE	E No. 4				
Diseases	Posti-	Nega- tive	Physi- cians	Post Offices	Month.	Sputum.	Diphth.	Typhoid Fever.	Total.
Diseases	LIVE	LIVE	Clairs	Offices	Jan		107	14	175
					Feb	. 60	209	11	280
Pulmonary					Mar	. 51	112	14	177
Tuberculosis	115	639	~		Apr	. 69	81	41	191
					May	. 73	53	23	149
Diphtheria	23	1,245			June	. 66	50	23	139
-					July	. 45	42	13	100
Typhoid Fever	41	205	389	137	Aug	. 63	60	27	150
					Sept	. 58	67	30	155
					Oct	. 59	65	18	142
					Nov	. 76	165	21	262
				,	Dec	. 80	257	11	348
						754	1,268	246	2,268

Table No. 5 shows the number of blood examinations by the complement fixation test for the diagnosis of syphilis.

TABLE No. 5		
Bloods received	17,843	
Bloods examined	17,763 2,958	
Bloods negative	14,805	
Bloods received from Calgary and south		5,278 12,485
Number of blood examinations made in 1931		16,391 17,843
Increase in number of specimens examined		$1,372 \\ 8.3\%$

Table No. 6 gives the details of the bacteriological and chemical examination of water performed throughout the year.

TABLE No. 6		
Waters	1931	1932
Number of samples of water examined bacteriologically and found fit for human consumption	866	802
Number of samples of water examined bacteriologically and found unfit for human consumption	75	104
Number of samples of water examined bacteriologically and chemically and found fit for human consumption.	778	- 762
Number of samples of water examined bacteriologically and chemically and found unfit for human consumption Number of samples of water examined chemically and found	135	142
fit for human consumption Number of samples of water examined chemically and found	49	57
unfit for human consumption	6	9
fit for human consumption	24	16
unfit for human consumption	1	
Total	1,934	1,637

Table No. 7 gives the details of the bacteriological, bacteriological and chemical, and chemical examination of milk performed throughout the year.

IADLE NO. (
	1931	1932
Number of samples of milk examined bacteriologically	1,335	1,778
chemically	165	159
Number of samples of milk examined chemically	5	9
Total	1,505	1,946
Number of samples of milk examined showing low butter fat	1931	1932
content Number of pasteurized milk samples examined bacteriologically	24	15
with a bacterial count above 30,000	30	86
logically with a bacterial count above 300,000	23 363	29 805
Number of non-pasteurized milk samples examined	1,142	1,141

Pathological, Histological Material, etc.

During the year under consideration 6,641 specimens were examined, an increase of 39. This work is carried out under the direction of Dr. J. J. Ower in the Department of Pathology, and represents a very heavy and valuable routine in operative material. The diagnostic work is also very considerable, and is of great value to the profession and public.

Medico-Legal Examinations.

This work has included various examinations pertaining to criminal and other cases in the Province throughout the year.

Miscellaneous Examinations.

There were 2,346 examinations during the year. These are of a very varied nature, and include the examination of food, body fluids, etc.

Smears for the Gonococcus.

There were 3,759 examinations made during the period covered by this report.

Chicken Blood Examinations.

There were 21,909 chicken blood examinations made for the diagnosis of bacilliary white diarrhoea.

Cattle Blood Examinations.

There were 174 cattle bloods examined for the diagnosis of contagious abortion.

Vaccines and Sera Prepared and Distributed.

There were 8,765 cubic centimeters of vaccine prepared. This includes typhoid vaccine, autogenous vaccine, etc.; 2,130 cubic centimeters of poliomyelitis convalescent serum was prepared.

Research Work.

Research work has continued, and various publications were made.

ESTIMATION OF COMMERCIAL VALUE	IF MINIMUM	CHARGE	WERE	MADE
Sputum	754	\$ 1.00	\$	754.00
Diphtheria	1,268	1.00		1,268.00
Typhoid Fever	256	1.00		256.00
Milks	1,637	3.00		4.911.00
Waters	1,946	10.00		19,460.00
Mothers' Milk	14	2.00		28.00
Miscellaneous Examinations	2,346	3.00		7,038.00
Bloods for the Wassermann Test	17,763	3.50		62,170.50
Smears for Gonococcus	3,759	1.00		3,759.00
Icterus Index Determination	52	1.00		52.00
Van Den Bergh Determination	4,432	1.00		4,432.00
Pathological Histological Material	6,641	5.00		33,205.00
Blood Smear Examinations	59	2.00		118.00
Ascheim Zondek	59	5.00		295.00
Cerebro-Spinal Fluid Examinations	1,136	2.00		2,272.00
Bacteriological P.M. Examinations	25	5.00		125.00
Chicken Blood Examinations	21,909	.10		2,190.90
Cattle Blood Examinations	174	.20		34.80
Typhoid Vaccine (25 c.c. quantity)	218	1.00		218.00
Autogenous Vaccine (25 c.c. quantity)	65	10.00		650.00
B.C.G. Vaccine (10 c.c. quantity)	169			
Poliomyelitis Convalescent Serum (15 c.c.				
quantity)	142	2.50		355.00
Urinalysis	411	3.00		1,233.00
Medico-Legal Examinations	27	5.00		135.00
	64,668		\$	144,960.20
Transpare in actionated value of	00 044 40			

Increase in estimated value of work, \$8,941.13.

SERUMS AND VACCINES DISTRIBUTED DURING THE YEAR 1932

Smallpox—10 points	16,050 points
1,000 units 20,000 units Diphtheria Toxoid—	728,000 units 2,040,000 units
1 person 6 persons 12 persons Schick Test—25 persons Scarlet Fever Toxin—	1,681 persons 2,064 persons 6,384 persons 2,825 persons
1 person 6 persons Dick Test—10 persons Tetanus Serum—	418 persons 750 persons 850 persons
5,000 units 1,500 units 10,000 units Anti-Meningitis Serum—20 c.c. Vial	20,000 units 61,500 units 20,000 units 2,040 c.c.
Pertussis P.D. & Co.— 5 c.c. 20 c.c. Typhoid Vaccine Other Vaccines B.C.G. Vaccine Poliomyelitis	60 c.c. 40 c.c. 5,450 c.c. 1,625 c.c. 1,690 c.c. 2,130 c.c.

Public Health Nursing Division

(KATE S. BRIGHTY, R.N., Superintendent)

Each of the three public health nursing districts of Norma M.D. and the Town of Vegreville, Marquis M.D., and Richdale M.D. continue to be served by a public health nurse. The routine work in these districts embraces school inspection, child welfare clinics and home visits. In several instances the nurses have been able to refer cases to various organizations for advice and treatment. The local medical officers of health, the Canadian National Institute for the Blind, the Junior Red Cross Hospital and the dental profession have all been most co-operative in helping to provide attention in needy cases.

STA	TISTICAL	REPORT	
First inspection Second inspection Classroom inspection Treatments Not vaccinated	1546 30 6	With defects Without defects Given whooping cough vaccine Vaccinations against smallpox Diphtheria toxoid treatments	1479 773 6 213 826
DEFECTIVE	CONDITIO	ONS SUSPECTED	
Vision Hearing Throat Adenoids	382 32 458 34	Nasal Tonsils Glands Teeth	51 103
SY	MPTOMS	NOTED	
Eye conditions Orthopaedic Posture Malnutrition Mental symptoms	21 3 29 102 8	Nervous symptoms	10 40 19 71 91
RE	SULTS OF	TAINED	
Glasses fitted Glasses refitted Tonsils removed Adenoids removed Dental treatments Surgical treatments Medical treatments	27 17 40 38 243 1	Schoolroom talks Home visits Demonstrations Interviews Child Welfare Clinics Attendance, Child Welfare Clinics. Public lectures	120 245 16 123 72 425 16
VISITING N	URSE-ON	E MUNICIPALITY	
Home visits Office consultations Dressings and treatments Medical cases Surgical cases Taken to hospital Obstetrical cases taken to hospital Eye cases Foreign body in eye	276 215 185 175 42 14 6	Dental cases Communicable diseases Vaccinations Whooping cough vaccine Pre-natal visits Child Welfare visits Child Welfare consultations Deaths:	12 8 35 31
Mental case	1	Under 1 year Over 1 year	$0 \\ 1$

DISTRICT MEDICAL AND NURSING SERVICE

Eight districts are served, two by districts physicians and six by district nurses.

In the district of Peers on the Jasper Highway, the community has fully demonstrated its appreciation of the services of the district nurse by erecting a substantial modern cottage with attached office for the accommodation of the nurse.

STATISTICAL REPORT

Home visits	2118	Pre-natal consultations	313
Office consultations	2175	Child Welfare visits	149
Dressings	1094	Child Welfare consultations	79
Medical cases	1619	Deaths under 1 year	16
Surgical cases	575	Deaths over 1 year	24
Obstetrical cases	178	Indigent cases sent to city	39
Abortions		Visits to Indian reserves	37
Pre-natal visits		Dental extractions	79

CHILD WELFARE CLINICS

Provincial Child Welfare Clinic, 604, Civic Block, Edmonton

One hundred clinics were held during the year, with an average attendance of 57. Two hundred and one new cases were enrolled in the pre-natal list, 119 cases discharged, leaving 44 cases on the roll.

STA	TISTICAL	REPORT	
Clinics held	100	Babies transferred to pre-school	189
Babies in attendance	4556	Babies discharged	772
Pre-school children in attendance	1111	Pre-school children discharged	312
Total attendance	5667	Babies referred to Family Physician	64
Weighing clinics	51	Pre-school children referred to	
Attendance	410	Family Physician	38
Babies on roll	1797	Out-of-town cases	66
Pre-school children on the roll	953	Deaths: Under 1 year	7
Babies admitted (new cases)	787	In second year	4
Babies re-admitted	6	Pre-school children	4
Pre-school children admitted		Home visits	4639
Dua sahaal ahilduan ua admittad	15		

DEFECTS FOUND

		Pre-			Pre-
В	abies.	school.	I	Babies.	school.
Vision	28	13	Skin conditions	281	44
Hearing	20	4	Mental conditions	7	5
Nasal	5	6	Malnutrition	18	6
Throat	23	187	Miscellaneous	376	69
Oral	3.5	3.5			

Provincial Child Welfare Clinic, New Police Building, Calgary

Clinics were held in three rooms in the Health Department offices, the clinic being open two afternoons a week with a doctor and two nurses in attendance, and three afternoons a week with nurses only in attendance.

The staff consists of 1 doctor and 2 nurses.

The Mental Hygiene Clinic is held in the clinic rooms fortnightly, the Child Welfare nurse assisting in the work of this clinic.

STATIST	TICAL REPORT
Clinics held 103	
Babies in attendance 3721	Babies re-admitted 11
Pre-school children 1656	Pre-school children admitted 179
Total attendance 5377	Pre-school children re-admitted 58
Babies on the roll 790	Babies transferred to pre-school 562
Pre-school children 1206	Babies discharged 171
Home visits 2380	Pre-school children discharged 635
Babies examined by doctor 1905	Diphtheria toxoid treatments 161
Pre-school children examined by	Vaccinations 124
doctor 574	

DEFECTS FOUND

		Pre-		Pre-
Bak	oies.	school.	Babies, s	school.
Vision	16	49	Skin conditions 20	31
Hearing	23	25	Mental conditions 0	
Nasal	0	12	Malnutrition 7	17
Throat	27	176	Miscellaneous 127	8.0
Oral	6	328		
Dental Clinic Eye, Ear, Nose and Throat Clinic.			Number pre-natal letters sent Attendance from out of town	

Provincial Child Welfare Clinic, Court House, Medicine Hat

The usual baby clinics were held in Medicine Hat, with followup work. In Redcliff 2 baby clinics a month were held, with the exception of the months of January and February. In addition to conducting these clinics, the Provincial nurse assisted in the organization of chest clinics under the direction of Dr. G. R. Davison of the Central Alberta Sanatorium. In Redcliff, 238 school children were inspected. As a result, quite a number had their eyes tested and were fitted with glasses. Some had tonsil and adenoid operations. Two malnutrition cases were supplied with milk by the Red Cross, and soon showed marked improvement. Four cases were recommended to report at the chest clinic for examination; 2 cases were negative and the findings were indefinite in the other 2. They are under observation, and have been advised to report at the next chest clinic. Nine cases were recommended for medical examination.

Nursing services were rendered at the venereal disease clinic once a week. During the summer months the attendance was small, but has increased considerably.

STATISTICAL REPORT

Clinics held		Pre-school children re-admitted	4
Babies in attendance		Pre-school children discharged	109
Pre-school children	358	Babies transferred to pre-school	136
Total attendance	1871	Babies referred to Family Physician	
Babies on roll	392	Pre-school children referred to	
Pre-school children on roll	417	Family Physician	11
Home visits	1420	Pre-natal cases admitted	11
Babies admitted	151	On roll	4
Babies discharged	4	Deaths (over 2 years)	1
Pre-school children admitted		() = = = = = = = = = = = = = = = = = =	

DEFECTS FOUND

		Pre-			Pre-
		school.		Babies.	school.
Vision	18	2	Skin conditions	82	3
Hearing	6	0	Malnutrition	32	6
Throat	9	70	Miscellaneous		2.5
Oral	8	79			

TRAVELLING CHILD WELFARE CLINICS

Due to the policy of economy, a reduction was made in this service as compared with previous years. The Travelling Child Welfare Clinic served 67 centres this year, at which 1,928 infants and pre-school children were examined.

Demonstration of Food at Low Cost

Responding to a much-felt need in both rural districts and urban centres, a bulletin was prepared entitled "Food at Low Cost," and demonstrations of the meals outlined in the bulletin were arranged at a number of points.

The cooking and serving of these meals proved an interesting feature in connection with public health exhibits shown in Edmonton, Calgary, Red Deer and High River during the winter, and again at the Edmonton Exhibition in the summer.

PRE-NATAL AND POST-NATAL LETTERS

These letters published by the Canadian Council on Child and Family Welfare continue to increase in popularity among the women of Alberta; 471 sets of pre-natal letters and 853 sets of postnatal letters were mailed during the year.

The office is becoming a bureau of information to the women of the Province seeking advice on maternal and child hygiene. Thirteen centres, at which nurses are stationed, were visited during the year, and 14 public addresses given.

Three of the staff nurses took post-graduate work during the

vear.

Miss Marion Lavell, P.H.N., received a Rockefeller Foundation Travel Grant, and was absent from the Province six weeks visiting child hygiene centres in Toronto, New York and Chicago.

Mrs. Jessie Hyde took a post-graduate course in obstetrical

nursing in Chicago.

Miss Amy Conroy attended a class at the University of Alberta for one month studying mental hygiene and child behaviour.

A public health nurse was in charge of the first aid tent at the Edmonton Exhibition, as in previous years.

Hospitals Division

(W. B. Milne, C.A., Secretary of the Department)

On the 31st of December, 1932, there were 89 approved hospitals in the Province.

The Spirit River Community Hospital was opened as an approved hospital during the year.

The total grants to hospitals and homes for the year 1932 amounted to \$424,744.50.

These hospitals, with the addition of the Central Alberta Sanatorium, had a total bed capacity of 4,481, divided as follows: General, 2,413; maternity, 630; infants, 561; paediatrics, 295; isolation, 290; tuberculosis, 292.

For a population of 741,000, there was one hospital bed for every 167.61 of the population, or 5.9 beds per thousand population; 66,592 patients were treated during the year, receiving 866,700 days' treatment. This means that in the year 1932 hospital treatment was provided for 8.86% of the population, or one in every 11.11 persons.

The average number of patients admitted daily was 182.7. The average number of days spent in hospital by each patient was 13, and if the Isolation, Sanatorium, Orthopaedic, S.C.R. and T.B. cases in the University Hospital were eliminated, this would be reduced to an average of 11.3. The average number of patients in hospital daily was 2,371.8, or one in every 316.6 of our population. Each bed provided accommodation for an average of 14.8 patients during the year.

The nursing staff of these approved hospitals, excluding the Central Alberta Sanatorium, consisted of 454 graduate nurses, 672 pupil nurses, and 184 other attendants.

There were 13 nurses' training schools in the Province, and the number of nurses who were graduated during the year was 231. Twenty-six dietitians were employed.

During the year 8,595 maternity cases were cared for, these cases comprising 12% of the total admitted cases. Living births were: male 4,223, female 3,985, a total of 8,208. Multiple births totalled 89, and there were 275 stillborn. The maternal deaths reported were 24, this giving a death rate of .27% of total maternity cases admitted, and 2.98 per thousand living births.

The living births in Alberta for the year 1932 were 16,924. It is interesting to note that of this total 48.5% took place in Government approved hospitals.

In the hospitals reporting, 20,188 general anaesthetics were administered, and 5 deaths occurred from these.

Two hundred and forty-six autopsies were performed. The infections developed in hospitals totalled 129, divided into: medical 19, surgical 81, obstetrical 29.

The number of communicable disease cases treated, excluding typhoid fever and tuberculosis, totalled 732. Typhoid cases numbered 77, tuberculosis 1,025 (pulmonary 749, other forms 276).

Amongst other cases treated in hospital there were 1,337 cardiac, 622 rheumatic, 356 goitre, 566 venereal, 796 malignant.

There were 280 deaths within ten days of surgical operations, and 423 within forty-eight hours after admission. Communicable diseases accounted for 51 deaths.

The approved hospitals reported 111,834 laboratory examinations and 23,106 X-ray examinations.

The total operating expenditure of approved hospitals for 1932 was \$2,485,592.11. This included administration of \$236,678.56, operating \$2,012,457.42, and maintenance \$236,456.13. The expenditure classed as capital is mostly repayments of principal and interest on capital borrowings.

Earnings of these hospitals amounted to \$3,252,887.36. On referring to the details of the earnings it will be noted that there is a slight difference in the totals shown as paid by Government grant and the amount stated previously in this report. This is accounted for by the fact that homes have not been included, and quite a number of the hospitals presented financial statements covering a fiscal year, which differs considerably from a calendar year.

Of the earnings shown, \$419,283.50 was Alberta Government grant. Municipal and other grants, which include amounts paid by municipalities to take care of deficits, amounted to \$323,565.58. Patients' fees earned amounted to \$1,914,015.16, donations amounted to \$229,352.84, taxes for municipal hospital purposes amounted to \$292,120.24, and sundry earnings amounted to \$74,550.04.

The average cost per patient per day was \$3.14. Excluding Isolation, Junior Red Cross, Sanatorium, University Hospital and hospitals operating incurable wards, the average cost was \$3.04. The average earnings per patient day was \$4.18. The average cost was divided as follows: administration 7.89%, operating 82.9%, maintenance 9.2%.

The statistical information given in this report has been obtained from financial and statistical returns obtained from each hospital for the year 1932, and again it must be pointed out that each of them still experience difficulty in compiling the forms supplied, although such form is now in its fourth year of operation.

The following statements are submitted, giving the details in connection with each hospital in the Province:

No. 1—Bed capacity, number of patients, number of days, nursing staff, etc.

No. 2—Nursing statistics, cases treated, anaesthetics, autopsies, etc.

No. 3—Expenses of administration, operating, maintenance and capital repayments.

No. 4—Hospital revenues.

No. 5—Costs per patient per day, earnings per patient per day, and percentage of administration, operating and maintenance.

MUNICIPAL HOSPITALS

There has been no change in the number of municipal hospitals since 1931, there being 22 in operation at December 31st, 1932.

This does not include the sub-hospital at Craigmyle, as it is considered part of the hospital facilities of the Hanna district.

Statistics of the municipal hospitals will be found with the other approved hospitals of the Province.

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	Maternity	0.00
-	General	3 . 22 . 11
	Name of Hospital	Athabasca, Municipal Bartaff, Mineral Springs Barthead, St. Elizabeth Bassano, Municipal Bentley, Community Berwyn, W. I. Bonnyville, K. H. Prettie Bonnyville, K. H. Prettie Bonnyville, St. Louis Calgary, General Calgary, Isolation Calgary, Smallpox Calgary, Junior Red Cross Calgary, Junior Red Cross Calgary, Junior Red Cross Calgary, Gentral Alberta Sanatorium Canrose, St. Mary's Caresholm, General Cold Lake, John Neil Cold Lake, John Neil Coleman, Miners' Union Coleman, Miners' Union Consort, Municipal Coronation, General Daysland, Providence Desmarais, St. Martin's Didsbury, General Desmarais, St. Martin's Didsbury, General Bedmonton, Beulah Home Edmonton, Royal Alexandra Edmonton, S. A. Grace Edmonton, Solation Edmonton, University (Civilian) Edmonton, University (Orthopaedic) Edmonton, University (Tuberculosis)

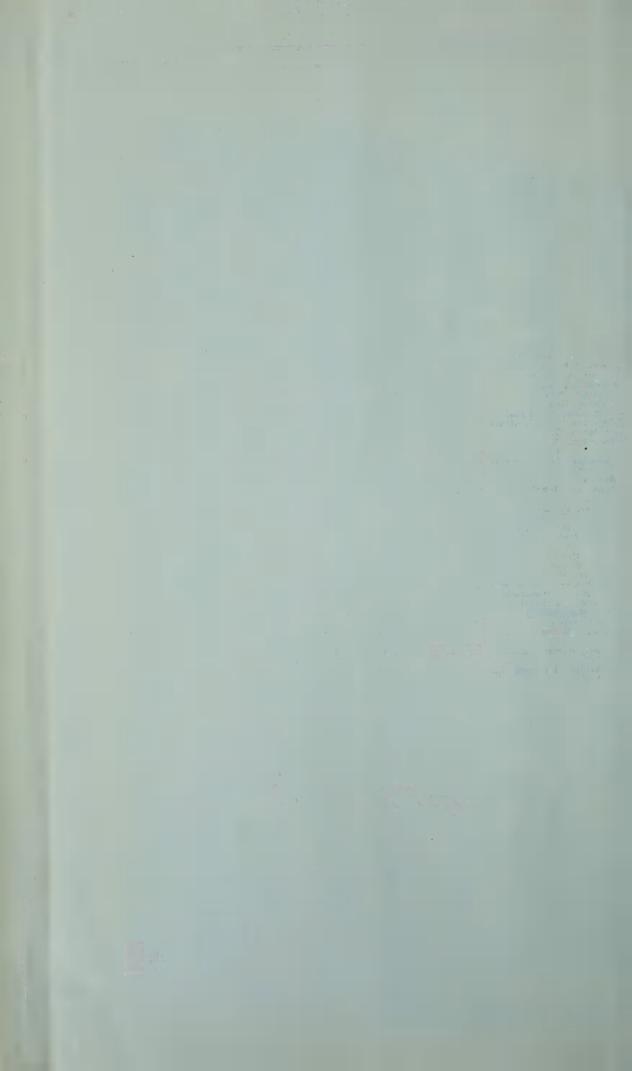
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	Nurses gradus during year		231	:	:
Murses training football			13	i	:
		i-	184		
	Pupil nurses		672		
Nursing	Graduates	4004040	454		
Treatment	Aver. No. of national daily hospital daily	18.5 18.5 18.5 18.5 18.5 18.5 18.5	2371.8	•	1998.9
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1	Female	22 121 2293 140 1240 132 132	37,378	546	36,832 7
Patients	Male	177 172 235 200 210 373	29,214	1,280	27,934 3
	Bassinettes	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2374 561		
	Public	14 20 20 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10	237		
	Semi-Private	: : : :	771		
	Private	4 :0000	566		:
Capacity	Total	11 12 10 10 10 10 10 10 10 10 10 10 10 10 10	4481	586	3895
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	Paediatrics		295	:	:
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	Maternity	7494494	2413 630	:	:
-	General	11 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2413		
Name of Hospital		Viking, Municipal Vila, Our Lady's Vulcan, Municipal Wainwright, Municipal Wayne, General Westlock, Immaculata Westaskiwin, Community (New building opened Nov. 15th, 1932).		Excluding Isolation, Sanatorium, Ortho- paedic, S.C.R., and T.B. cases in Uni-	



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lee and Water		\$22,738.49	ave available.
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Stationery, Printing and Postage		80,441.40	fay to show



No. 4—REVENUE OF ALBERTA HOSPITALS, 1932

	Grants	ts				Sundry		1
Name of Hospital	Alberta	Municipal and others	Patients' Fees	Donations, Cash and Services	Tax Requisitions	Earnings and Excess Tax	Total Earnings	
Athabasca, Municipal	\$ 3,434.00		\$ 9,493.39		\$ 9,227.61	\$ 232.76	\$ 22,387.7	1 9
Banff, Mineral Springs			13,777.86	\$ 1,033.49			16,720.85	ເດ ເດ
	2,614.00		8,707.05	100	8,425.00	2,934.93	22,680.98	00 =
Berwyn, W. I.	776.00	\$ 1,658.34	3,292.70	138.59			5,792.7	# G
Bonnyville, K. H. Prettie	1,595.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,536.00	8,889.98		142.92	15,163.90	0 00
Calgary, General	32,068.50	*94,344.29	1,	7,770	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,076.27	306,044.90	0 0 11
	3,733.50	73		1.157.95		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,446.8	ာ ကေ
Calgary, Holy Cross	17,609.00	4,000.00	129,838.09	23,646.00			175,093.0	60
Calgary, Junior Red Cross	13,540.50		99 993 76	4,163.89	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	:	95 733 7	n (c
Cardston, Municipal	2,636.50		6,952.11		13,100.65	886.18	23,575.4	4
Castor, Rosary	1,968.50		9,288.94	3,167.55		3,116.81	17,541.8	0 0
Cereal, General Claresholm General	1 490 00	550.00	8,858.48 8,659.18			* * * * * * * * * * * * * * * * * * * *	10 699.18	00 00
Cold Lake, John Neil	881.00	1,269.00	850.32	5,6			8,951.67	-
Coleman, Miners' Union	1,014.50		749.17			000	8,650.3	10 C
Coronation, General	1,398.50		7,697.50	312.00	٥	120.40	9,408.00	
Daysland, Providence	1,262.00		6,325.65			8,404.10	15,991.7	20
Didsbury, General	1,102.50	2,400.00	6,266.00		00000	00000	9,768.50	014
Edmonton, Beulah Home	3,025.50	800.00	4,889.28	3.545.19	37,520.00	1,775.05	12,259.9	20
_	19,081.50	7,650.00		47,800.00			148,881.5	SH
Edmonton, Misericordia	20,554.00	5,950.00	120,203.80	27,870.85		4,860.07	179,438.7	27 -
2 14	50,614.00	*73,268.27				6.361.10	412.788.07	12
	4,578.00	*33,670.16					58,877.7	-
Edmonton, University	*68,212.50	*32,988.00	300,638.75				401,839.2	io n
	4.086.50	0,924.00	10.254.86	80	11 443 30	367.50	26.152.1	0 50
Empress, Cottage	1,278.00		7,254.79	901.73		60.49	9,495.0) pund
Fairview, W. I. Galahad St. Joseph's	1 384.00	1,270.00	4,754.75	- C C C C		20.45	7,031.2	0 =
Grande Prairie, Municipal	5,202.00		22,568.70	105.65	25,870.76	1,401.54	10	# 10
Grouard, St. Joseph's	407.50	5,175.32	1,687.40	2,000.00			9,270.22	22

No. 4-REVENUE OF ALBERTA HOSPITALS, 1932-Continued

Total Earnings	28. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20
Sundry Earnings and, Excess Tax	* 2,69959 11,536.81 11,536.81 11,267.63 11,164.70 11,164.70 11,164.70 11,359.50
Tax Requisitions	\$ 29.217.00 15,230.00 15,230.00 15,230.00 15,730.00 11,764.19 13,964.00 11,880.13 16,851.96
Donations, Cash and Services	\$ 4,009.20 64.85 10,750.00 1,978.43 3,059.15 1,078.60 4,773.50 6,589.20 8,888.00 1,256.79
Patients' Fees	8 18,113.6 11,0928.0.00 11,028.0.00 11,028.0.00 11,028.0.00 11,028.0.00 11,028.0.00 11,028.0.00 11,028.0.00 11,028.0.00 11,068
Municipal and others	\$ 2,500.00 2,926.81 2,793.00 6,000.00 6,000.00 865.50 885.50
Government Grants	\$ 5,822.00 1,686.00 1,686.00 1,413.50 1,413.50 1,1194.00 1,1194.00 1,1194.00 1,1194.00 1,118.00 1,18
Name of Hospital	Hanna, Municipal Hanna, Craigmyle Sub. Hardisty, St. Anne's High River, Municipal Innisfail, Municipal Islay, Municipal Jasper, Seton Killam, General Lethbridge, Galt Lethbridge, Galt Lethbridge, Galt Lethbridge, St. Michael's Loydminster, Municipal Macleod, General Macleod, General Macleod, General Macleod, General Macleod, General Mundare, General Mundare, General Olds, General Olds, General Olds, General Onoway, Municipal Procest, St. Vincent's Peace River, Municipal Procest, Municipal Radway, St. Joseph's Red Deer, Municipal Rimbey, St. Paul's St. Paul's St. Paul's St. Paul's St. Paul's St. Mary's St. Paul's St. Paul's St. Municipal Rimbey, St. Municipal Rimbey, St. Municipal Rimbey, St. Mary's Vegreville, General Vegreville, General Vegreville, R. M. Boswell Vermijon, Municipal Vermijon, Municipal

23,351.99 21,845.00 4,816.75 14,385.16 22,145.42	\$3,252,887.36					
616.90 606.65 146.20 290.16	\$ 74,550.04	1 C C C C C C C C C C C C C C C C C C C	\$160,746.1D	41,000.01	00.000	00,414,00
13,096.59	\$292,120.24	\$73,268.27 25,178.82 62,299.06	\$33,670.16 4,838.81 8,800.00	\$11,738.00 21,250.00	\$48,212.50 20,000.00	\$13,000.00
2,594.26	\$229,352.84					
7,184.50 9,190.85 3,155.25 9,283.20 14,869.96	\$1,914,015.16	ed to Mill Rate. ged to Mill Rate. bit.	ation: ds to make up deficit	rta	RNMENT GRANT: iversity: Grant Grant	ole ward.
600.000	\$323,565.58	o Mill Rate.				e from incural
2,454.00 2,477.50 1,661.50 1,761.50 2,463.00	\$419,283.50		te up deficit nking fund ebentures	rta	GRANT:	General, includes revenue from incurable ward ns: nster, Municipal (Alberta Board)
Vulcan, Municipal Wainwright, Municipal Wayne, General Westhock, Immaculata Wetaskiwin, Community (New building opened Nov. 15th, 1932)	-11	*MUNICIPAL GRANTS: Calgary, General, is amount charged to Mill Calgary, Isolation, is amount charged to Mill Edmonton, Royal Alexandra: 1. City funds to make up deficit	Edmonton, Isolation: 1. City funds to make up deficit. 2. Contribution to sinking fund 3. Interest paid on debentures	Edmonton, University: City of Edmonton University of Alberta	*ALBERTA GOVERNMENT GRANT: Edmonton, University: General Grant	*Sundry Earnings: Macleod General, includes revenue from incurable ward. *Tax Requisitions: Lloydminster, Municipal (Alberta Board)

No. 5—COSTS OF ALBERTA HOSPITALS, 1932—Continued

		atient day	Percentage of cost			including contri- om ies per day	
Name of Hospital	Exclusive of Capital and Reserves	Capital	Adminis- tration	Operating	Maintenance	Earnings, includingrants and contributions from Municipalities per patient per day	
Athabasca, Municipal Banff, Mineral Springs Barrhead, St. Elizabeth Bassano, Municipal Bentley, Community Berwyn, W. I. Bonnyville, K. H. Prettie Bonnyville, St. Louis Calgary, General Calgary, Isolation Calgary, Jsolation Calgary, Holy Cross Calgary, Holy Cross Calgary, Junior Red Cross Calgary, Junior Red Cross Cadgary, Municipal Castor, Rosary Cereal, General Claresholm, General Cold Lake, John Neil Coleman, Miners' Union Consort, Municipal Coronation, General Daysland, Providence Didsbury, General Drumheller, Municipal Edmonton, Beulah Home Edmonton, General Edmonton, Misericordia Edmonton, Royal Alexandra Edmonton, Isolation Edmonton, University Edson, St. John's Elk Point, Municipal Empress, Cottage Fairview, W. I. Galahad, St. Joseph's Grande Prairie, Municipal Grouard, St. Joseph's	3.82 2.43 3.37 2.54 2.86 2.81 2.86 4.01 1.32 2.87 3.55 3.20 2.99 3.02 2.25 2.82 1.51 4.10 2.73 2.60 4.11 1.55 3.11 5.05 3.11 5.05 3.11 5.05 3.11 5.05 3.11 5.05 5.05 5.05 6.05 6.05 6.05 6.05 6.05	\$ 2.66 	11.1 5.2 1.3 10.1 5.4 6.4 6.4 6.6 10.5 23.9 7.8 7.5 3.2 12.7 7.2 5.4 2.0 20.0 6.1 9.2 6.6 4.4 7.4 9.8 8.9 5.8 11.4 10.9 12.0 20.0 8.9 11.4 10.5 10.	80.5 81.9 68.6 84.6 84.6 87.4 92.0 65.9 76.8 82.1 77.5 93.3 82.7 82.0 86.1 73.9 90.2 86.1 73.9 90.2 86.1 71.5 86.1 80.6 86.2 86.2 86.2 86.2 86.2 86.2 86.2 86	8.4 12.9 30.1.1 5.3 7.2 1.6 9.5 29.5 12.7 11.6 10.1 15.0 3.5 4.7 5.1 13.3 6.0 11.9 6.1 3.7 8.0 1.4 9.0 4.9 4.1 10.5 14.5 17.1 10.5 14.7 10.5 14.7 10.5 14.7 10.5 14.7 10.5 14.7 10.5 14.7 10.5 14.7 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	\$ 3.26 5.06 3.01 4.29 3.77 3.73 4.76 2.49 4.77 17.52 4.96 1.19 3.59 5.08 4.32 3.36 4.47 4.46 3.32 3.36 4.75 4.47 4.46 3.32 3.36 4.75 4.47 4.46 3.32 3.36 4.75 4.47 4.46 3.32 3.36 4.75 4.47 4.46 3.32 3.36 4.75 4.47 4.46 3.32 3.36 4.75 4.47 4.48 4.17 2.48 4.17 2.48 4.17 2.48 4.17 2.48 4.17 2.48 4.36 1.79 4.08 4.32 4.36 1.79 4.08 4.37 4.30 5.3	
Hanna, Municipal Hanna, Craigmyle—Sub. Hardisty, St. Anne's High Prairie, Community High River, Municipal Innisfail, Municipal Islay, Municipal Jasper, Seton Killam, General Lacombe, General Lamont, Public Lethbridge, Galt Lethbridge, Isolation Lethbridge, St. Michael's Lloydminster, Municipal Mannville, Municipal Medicine Hat, General Mundare, General Mundare, General Mundare, General MocLennan, Sacred Heart Nanton, General Nordegg, General Onoway, Municipal Peace River, Municipal Peace River, Municipal Radway, St. Joseph's Red Deer, Municipal Rimbey, St. Paul's St. Paul, St. Theresa Smoky Lake, Geo. McDougall Stettler, Municipal	2.87 2.880 2.08 3.28 3.28 3.48 4.56 2.87 2.92 9.35 2.74 2.33 3.14 2.21 4.11 2.39 3.62 4.11 2.39 3.62 4.11 3.08 3.48 4.11 2.21 4.11 3.08 3.48 4.11 2.21 4.11 3.08 3.48 4.11 3.08 3.14 4.11 3.08 3.14 4.11 3.08 3.14 4.11 3.08 3.14 4.11 3.14 4.15 4.15 4.15 4.15 4.15 4.15 4.15 4		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	88.0 86.4 83.0 80.1 79.9 79.4 87.1 90.5 73.1 84.6 92.5 89.1 75.6 95.3 86.1 75.6 95.3 80.9 86.7 79.5 81.1 80.0 80.9 84.0 85.5 85.2 85.2 86.7 86.7 86.7 86.7 86.7 86.7 86.7 86.7	2.1 12.2 6.8 7.0 12.1 12.7 9.9 3.9	4.24 2.75 4.92 3.58 3.72 5.91 4.61 3.69 3.95 3.43 13.97 4.44 2.76 1.48 4.53 3.45 4.08 3.99 4.13 9.30 3.87 5.34 4.47 5.34 4.67 7.3.98 3.59 3.72 3.01 3.55 5.2.74	

No. 5—COSTS OF ALBERTA HOSPITALS, 1932

		atient day	Percentage of cost			including contri- om ies per day	
Name of Hospital	Exclusive of Capital and Reserves	Capital	Adminis- tration	Operating	Maintenance	Earnings, inclugrants and conbutions from Municipalities patient per day	
Trochu, St. Mary's Vegreville, General Vegreville, R. M. Boswell Vermilion, Municipal Viking, Municipal Vilna, Our Lady's Vulcan, Municipal Wainwright, Municipal Wayne, General Westlock, Immaculata Westaskiwin, Community (New building opened Nov. 15, 1932).		\$.29 	7.3 2.6 1.8 9.8 9.9 5.2 9.8 10.9 8.3 4.3 5.0	79.0 88.4 82.9 80.9 87.2 83.9 89.1 84.1 87.4 85.6 83.3	13.7 9.0 15.3 9.3 2.9 10.9 1.1 5.0 4.3 10.1 11.7	\$ 4.18 3.58 2.94 3.18 3.95 4.63 4.76 4.41 1.45 4.08 4.49	
	\$3.14		7.89	82.91	9.2	\$ 4.18	
Eliminating Isolation, Junior Red Cross, Sanatorium, University and Hospitals operating incurable wards	\$3.04						

Division of Social Hygiene

(HAROLD ORR, O.B.E., M.D., D.P.H., Director)

There were no changes during the year either in our methods of treatment or prevention of venereal diseases, except such slight modifications as were necessary on account of the curtailment of our expenditure.

The work of the Department has been particularly heavy during the year. Owing to economic conditions we have had, during the past two years, a large increase in the number of patients seeking treatment, patients previously under the care of private physicians.

We are continuing to direct particular attention to the early detection of neurosyphilis and cardiovascular syphilis, the two types of syphilis which cause the greatest economic loss from incapacitation and early death.

The following figures briefly indicate the work done in the various clinics during the year:

EDMONTON CLINIC,				
Number of Patients Sexes of Patients: Male			€	808
Female				
CLASSIFICATION OF	THEIR DISE	ASES		
	Syphilis. G	onorrhoea.	Chancroi	d. Totals.
Male	237 108	215		$\frac{452}{156}$
				190
Totals	345	263		608
Number and results of Wassermann tests Number and results of cerebrospinal fluid	: 2,939 tests, tests: 154 tes	of which 6	49 were	positive.
CALGARY CLINIC, City Hall	Annex, Nev	Police	Building	27
Number of Patients				379
Sexes of Patients: Male Female			552 227	
CLASSIFICATION OF	THEIR DISE	ASES		
	Syphilis. G	onorrhoea.	Chancroi	d. Totals.
Male	225	427		652
Female	121	106		227
Totals		533		879
Number and results of Wassermann tests: 2 Number and results of cerebrospinal fluid to	,367 tests, of ests: 56 tests	which 62, of which	6 were p 16 were	ositive.
MEDICINE HAT CLINI	C, General	Hospita	1	
Number of Patients				38
Sexes of Patients: MaleFemale			27 11	
CLASSIFICATION OF				
	Syphilis. G		Chancroi	d. Totals
Male	8	14	5	27
Female	7	2	2	11
Totals	15	16	7	38
Number and results of Wassermann tests: 1 Number and results of cerebrospinal fluid t	02 tests, of vests: None.	which 51 w	ere posit	tive.
LETHBRIDGE CLIN	IC, Galt He	ospital		
Number of Patients		***************************************		76
Sexes of Patients: MaleFemale			70	

CLASSIFICATION OF THEIR DISEASES											
	Syphilis. (Gonorrhoea.	Chancroid	d. Totals.							
Male	29	40	1	70							
Female	5	1 33		6							
Totals	34	41	1	76							
Number and results of Wassermann tests: 1											
Number and results of cerebrospinal fluid to	ests: 9 tests	, of which	2 were p	ositive.							
LETHBRIDGE GA	OL, Lethbi	ridge									
Number of Patients Sex of Patients: Male				72							
CLASSIFICATION OF THEIR DISEASES											
Syphilis. Gonorrhoea. Chancroid. Totals.											
Male	30	42	N	72							
Number and results of Wassermann tests: 5 Number and results of cerebrospinal fluid to	27 tests, of ests: 8 tests	which 96, of which	were posi 2 were p	itive. ositive.							
FORT SASKATCHEWAN G	AOL Fort	Saskatel	newan								
Number of Patients				70							
Sexes of Patients: Male			193								
Female			77								
remate											
CLASSIFICATION OF											
	THEIR DISI			d. Totals.							
	THEIR DISI Syphilis. (EASES Gonorrhoea. 124	Chancroid	193							
CLASSIFICATION OF	THEIR DISI	EASES Gonorrhoea.									
CLASSIFICATION OF	THEIR DISI Syphilis. (EASES Gonorrhoea. 124	Chancroid	193							
CLASSIFICATION OF Male	THEIR DISI Syphilis. 69 40 109	EASES Gonorrhoea. $ \frac{124}{37} $ $ \frac{37}{161} $	Chancroid	$ \begin{array}{r} 193 \\ \hline 77 \\ \hline 270 \end{array} $							
CLASSIFICATION OF Male Female Totals Number and results of Wassermann tests: 1	Syphilis. 69 40 109 ,490 tests, 6	EASES Gonorrhoea. 124 37 161 of which 20	Chancroid	$ \begin{array}{r} 193 \\ \hline 77 \\ \hline 270 \end{array} $							
CLASSIFICATION OF Male Female Totals	Syphilis. 69 40 109 ,490 tests, c	EASES Gonorrhoea. 124 37 161 of which 20	Chancroid	193 77 270 ositive.							
CLASSIFICATION OF Male	Syphilis. 69 40 109 ,490 tests, corons IN Topphilis.	EASES Gonorrhoea. 124 37 161 of which 20 FHE PRO Gonorrhoea.	Chancroid 5 were p VINCE Chancroid	$ \begin{array}{r} 193 \\ 77 \\ \hline 270 \\ \text{ositive.} \end{array} $ d. Totals.							
CLASSIFICATION OF Male	Syphilis. 69 40 109 ,490 tests, c	EASES Gonorrhoea. 124 37 161 of which 20	Chancroid	193 77 270 ositive.							
CLASSIFICATION OF Male	Syphilis. 69 40 109 ,490 tests, co FORS IN 7 Syphilis. 21 12	EASES Gonorrhoea. 124 37 161 of which 20 FHE PRO Gonorrhoea. 72 10	Chancroid 5 were p VINCE Chancroid	193 -77 -270 ositive. d. Totals. 93 22 							
CLASSIFICATION OF Male	THEIR DISI Syphilis. 69 40 109 ,490 tests, of TORS IN To Syphilis. 21	EASES Gonorrhoea. $ \begin{array}{c} 124 \\ 37 \\ \hline 161 \end{array} $ of which 20 $ \begin{array}{c} \Gamma HE \ PRO \\ Gonorrhoea. \end{array} $	Chancroid 5 were p VINCE Chancroid	193 77 270 ositive. d. Totals.							
CLASSIFICATION OF Male	THEIR DISI Syphilis. 6 69 40 109 ,490 tests, of tests, of tests, of tests, of tests, of tests, of tests. Syphilis. 21 12 33 LATION	EASES Gonorrhoea. $ \begin{array}{r} 124 \\ 37 \\ \hline 161 \end{array} $ of which 20 $ \begin{array}{r} FHE PRO \\ Gonorrhoea. \end{array} $	Chancroid	193 77 270 ositive. d. Totals. 93 22 115							
CLASSIFICATION OF Male	Syphilis. 69 40 109 ,490 tests, of CORS IN To Syphilis. 21 12 33 LATION Syphilis.	EASES Gonorrhoea. $ \begin{array}{c} 124 \\ 37 \\ \hline 161 \end{array} $ of which 20 $ \begin{array}{c} \Gamma HE \ PRO \\ Gonorrhoea. \end{array} $ Gonorhoea	Chancroid The control of the contro	193 77 270 ositive. d. Totals. 93 22 115 d. Totals.							
CLASSIFICATION OF Male	THEIR DISI Syphilis. 69 40 109 ,490 tests, of the tests	EASES Gonorrhoea. $ \begin{array}{r} 124 \\ 37 \\ \hline -161 \end{array} $ of which 20 $ \begin{array}{r} \Gamma HE PRO \\ Gonorrhoea. \\ \begin{array}{r} 72 \\ 10 \\ \hline -82 \end{array} $ Gonorhoea	Chancroid	193 77 270 ositive. d. Totals. 93 22 115 d. Totals. 1,559							
CLASSIFICATION OF Male Female Totals Number and results of Wassermann tests: 1 CASES REPORTED BY DOCT Male Female Totals RECAPITUM Male Female	THEIR DISI Syphilis. 6 69 40 109 ,490 tests, of tests, of tests, of tests, of tests, of tests, of tests. CORS IN Tests Syphilis. 6 21 12 33 LATION Syphilis. 619 293	EASES Gonorrhoea. 124 37 161 of which 20 FHE PRO Gonorrhoea. 72 10 82 Gonorhoea 934 204	Chancroid Chancroid Chancroid Chancroid Chancroid Chancroid	193 77 270 ositive. d. Totals. 93 22 115 d. Totals. 1,559 499							
CLASSIFICATION OF Male	Syphilis. 69 40 109 ,490 tests, of ORS IN To Syphilis. 21 12 33 LATION Syphilis. 619 293	EASES Gonorrhoea. $ \begin{array}{r} 124 \\ 37 \\ \hline -161 \end{array} $ of which 20 $ \begin{array}{r} \Gamma HE PRO \\ Gonorrhoea. \\ \begin{array}{r} 72 \\ 10 \\ \hline -82 \end{array} $ Gonorhoea	Chancroid Chancroid Chancroid Chancroid	193 77 270 ositive. d. Totals. 93 22 115 d. Totals. 1,559							

Sanitary Engineering Division

(R. B. Owens, B.A., B.E., Provincial Sanitary Engineer)

The following is a detailed list of works for which Provincial Board of Health Certificates have been issued, together with the estimated cost of each:

WATERWORKS	
Coronation—Provisional Certificate No. 375/32, replacements to water mains. Estimated cost	
Coronation—Final Certificate No. 376/32, replacement to water mains. Estimated cost	\$ 8,962.00
SEWERAGE	
Calgary—Certificate No. 370/32, sewer extensions, Bylaw No. 2814. Estimated cost	2,700.00
Edmonton—Certificate No. 371/32, additions and alterations to No. 1 Sewage Disposal Plant. Estimated cost	85,000.00
Calgary—Certificate No. 372/32, sewer extensions. Estimated cost	
Calgary—Certificate No. 373/32, Sewage Disposal System (4th	5,164.78
and final unit). Estimated cost	50,000.00
Lethbridge—Certificate No. 374/32, storm sewer extension. Estimated cost	8,584.00

Plans and specifications submitted to the Provincial Board of Health for waterworks, sewerage and sewage disposal plants as required under Sections 10, 11, 12, 13, 14 and 15 of The Public Health Act were duly examined, and where approval was given certificates were issued.

Plans and specifications other than those aforesaid, but required by the Provincial Board of Health, were also examined, and the necessary action taken thereon.

Plans, specifications and proposals in connection with the sanitary engineering works submitted to the Public Utilities Commissioner were also examined and advice given.

Plans and specifications in connection with the sanitary engineering works connected with hospitals under The Hospitals Act and Municipal Hospitals Act were examined, and advice given thereon.

Sanitary engineering works in connection with the institutions under the administration of the Public Works Department were visited and advice given where necessary.

Private sewage disposal systems in connection with schools, etc., were examined, and advice given as to maintenance and operation.

During the year reports on the analyses of water and ice were examined and, where necessary, action in the matter of prohibiting the use of the supply was taken, or an investigation made for the purpose of advising as to a remedy.

Under the sanitation section of the Sanitary Engineering Branch of the Department, the following work was carried out by our three inspectors (one full-time, two part time):

Two hundred and sixty-six health districts were visited and inspected. Of this number 135 were inspected a second time, and 2 a third time.

Sixty-eight lumber, tie, sawmill and mining camps were visited and inspected.

One hundred and sixty-seven notices to abate nuisances were issued.

Seventeen prosecutions were carried out and convictions obtained in each case, fines varying from \$5.00 to \$20.00 being imposed in addition to costs.

Seven new nuisance grounds were located and approved.

Thirty-eight requests for services of inspector were received and attended to.

One hundred and seventy-eight pounds of foodstuffs were seized and destroyed as unfit for food for human consumption.

The services of the inspectors have been used in investigations of outbreaks of infectious and contagious disease.

Of the three inspectors, one is on full-time. One inspector devotes part of his time to dealing with office routine with respect to the system of supervision of purchasing adopted by the Department at the end of the year 1927. Two-thirds of the time of the other inspector is spent in the two full-time health districts.

Typical plans dealing with sewage disposal, heating and ventilation have been prepared, printed and distributed. These are available to those who request information on these subjects.

The Health and Occupational Therapy Exhibit was again held during the Edmonton Exhibition. The Baby Welfare Clinic at the Exhibition has been discontinued.

The Public Health Regulations are being revised.

Dental Hygiene Division

(A. E. Heacock, L.D.S., D.D.S.)

The various institutions under the Department received dental service throughout the year.

At the Central Alberta Sanatorium patients are being admitted at all times. As oral conditions have considerable influence on general health, it is considered to be in the interests of the patients that this institution be visited monthly.

The patients at the Provincial Training School and at the Provincial Mental Institute were examined twice during the year, and necessary treatment provided. At the latter institution emergencies were given attention at other times.

There have been many requests from the more remote districts for dental services, and with the return to normal conditions we hope to be able to resume this service.

Mental Health Division

(C. A. Baragar, M.D., Commissioner)

All the institutions, except the Provincial Training School, show an increase in patient population—the Provincial Mental Hospital by direct admission, and the Provincial Mental Institute by transfers.

On January 1st, 1932, the patient population stood at 1,711; males 1,091, female 620. At the end of the year it was 1,846; males 1,149, females 697—an increase of 135; males 58, females 77.

Notwithstanding this increase, with the exception of New Brunswick, the ratio in Alberta of patients to population is, I think, the lowest in Canada, and considerably below the average for the whole of Canada. As the ratio in general is relatively constant, we may expect a further increase in the number of patients seeking such care and treatment as the mental hospitals are able to give. The increase, especially the relatively greater increase in the number of female patients, may be taken as an indication of the growing public confidence in the mental hospital service.

At the Provincial Mental Hospital, Ponoka, we are faced with two problems of major importance. One is the steadily increasing state of overcrowding on the women's wards, reducing air space below a reasonable minimum, and adding greatly to the difficulties of providing for adequate classification, supervision and nursing care. On the men's wards this problem has been temporarily dealt with by a transfer of patients to the Provincial Mental Institute, Oliver, but at present there is no relief for the situation with respect to female patients. The renovation of one of the unused provincial agricultural schools as an auxiliary hospital for female patients would appear at this time of financial stress to be the most practicable solution.

The second great problem is the urgent need of a well organized active treatment service in a specially designed building in its own grounds. Such a service would add greatly to the therapeutic facilities and usefulness of the Provincial Mental Hospital.

While excellent work is being done at the Provincial Training School, it is being carried on in the face of serious difficulties. As an institution it is overcrowded, an unduly large proportion of space and energy is being devoted to the care of low grade hopeless cases, and an unduly small proportion to the training of high-grade socially hopeful cases. The pressure of applications for admission, again unfortunately mainly for low grades, constitutes a serious problem, and one that is becoming increasingly difficult to deal with. More accommodation is urgently needed.

The clinics, especially in Calgary and Lethbridge, have been very active throughout the year, and only the unavoidable limitation of expenditures has prevented similar clinics being established

elsewhere, especially at Medicine Hat and in the Peace River district.

The work of preparing and presenting cases to the Eugenics Board has been active, and may be said to be gaining steadily in favour with both those who carry social welfare responsibilities and with patients as well. Selective and carefully controlled sterilization is undoubtedly a mental hygiene measure of farreaching importance.

A point has now been reached in our general public mental hygiene programme where a revision of both mental diseases and mental defective legislation may be regarded as desirable and

necessary.

The training of nursing and attendant staff has now become fully established, and the first class of psychiatric students will graduate in 1933. Training to a limited extent has also been undertaken at both the Provincial Training School and the Provincial Mental Institute. These are forward steps of great importance, not by any means limited in their effect to the mental hospitals themselves. They have in addition a general educational value in mental hygiene, and will do perhaps more than anything else to break down age-old and erroneous conceptions of mental disorder and of mental hospitals.

Reciprocal affiliation between general and mental hospitals is an objective to be highly desired and earnestly sought, and would not, I am sure, prove one-sided, but would be mutually beneficial.

Eugenics Board

(J. M. MacEachran, M.D., Chairman)

Under the provisions of the statute known as The Sexual Sterilization Act the work of the Eugenics Board for Alberta was carried on throughout the year 1932. Four meetings of the board were held during the year. These meetings included four sessions at Edmonton, four at the Provincial Mental Hospital, Ponoka, three at the Provincial Training School, Red Deer, three at Calgary and one at Lethbridge.

During the year 63 cases—20 male and 43 female—were presented and passed by the board. This makes a total of 197 cases—52 male and 145 female—passed since the board was formed in 1929.

During the year 48 operations—14 male and 34 female—were performed. These included 11 cases—3 male and 8 female—that had been presented and passed by the board in 1931.

Twenty cases—8 male and 12 female—passed by the board during the year had not been operated on at the end of the year.

The operations have continued to be uneventful.

Follow-up reports have in general proved satisfactory, and there has been no indication of the fact that sterilization has resulted in any increase of immorality. In fact, due possibly to the fact that cases were under somewhat greater supervision, there has been a distinct improvement in this respect. It is desirable as soon as the financial situation permits, to increase the frequency and thoroughness of follow-up contacts, as they undoubtedly have a beneficial influence on patients.

The Act is working smoothly, and no complaints have been received. The recognition of its importance as a mental hygiene measure is steadily gaining ground.

Psychopathic Ward, University of Alberta Hospital

(C. A. Baragar, M.D., Director)

The psychopathic ward was opened for the reception of patients January 29th, 1931, and provides accommodation for 16 patients in the south wing of the hospital. During the first 11 months of its operation, 93 psychiatric patients were admitted, of whom 47 were men and 46 women. During the 12 months covered by this report 120 psychiatric cases were admitted, exclusive of 18 cases in residence for a day or more each for prophylactic investigation. Of the 120, 110 were first admissions. Of these 56 were men and 64 were women. Of the first admissions, 64.56% were voluntary, 22.73% by one medical certificate, and 2.72% by two medical certificates. In addition, 7.29% were admitted by warrant and 2.72% were transferred from other institutions.

Of the first admissions, it will be noted that 33.63% were born in Canada, 27.27% in Great Britain or other British Dominions, 13.63% in the United States, and 25.46% in other countries.

As to residence, 43.63% came from Edmonton, 75.5% from cities or towns including Edmonton, 22.7% from rural districts, and 1.8% from outside the Province. The various occupations were fairly generally represented.

Of the men, 46.16% were single and 44.23% married, 3.84% widowed and 5.77% separated; while of the women, 39.66% were single, 51.73% married, 1.72% widowed, and 6.89% separated.

More than half the cases (56.4%) were referred by physicians, the remainder by various organizations, clinics, health departments, and law enforcement authorities being prominent.

With respect to discharges, 40.87% were discharged recovered or improved. Of these, almost half had fully recovered, or were so much improved that they were on the point of full recovery at the time of discharge; 15.65% were unimproved on discharge, and 3.48% were discharged from a period of observation; 38.26% were admitted or returned to one of the provincial mental institutions. There were two deaths. Unfortunately, one of these was due to self-inflicted injuries.

Owing to the fact that without special authority the duration of psychopathic treatment is three months, and also to the fact that mental illness is likely to be prolonged, the recovery rate is smaller than would otherwise be the case.

With regard to the diagnoses the various psychiatric reaction types were represented, 16.34% belonging to the organic and toxic states, 57.25% to the so-called functional states.

In addition to the work in connection with patients under treatment in the psychopathic ward, there has grown up about the ward a consultation service—a service that has been greatly facilitated,

one might even say made possible, by the presence of the ward. As this work has grown to a place of no small importance, tables are appended covering it. It will be noted that 151 consultations, exclusive of re-examinations, have been carried out, and that while the majority of these have been at the request of physicians, many have been referred by police and other authorities.

The psychopathic ward is serving a very useful purpose, not only with respect to patients suffering from psychiatric conditions of short duration, but as a centre for observation of cases before admission to a mental hospital of cases referred by magistrates and medical practitioners. In psychiatric cases particularly a period of observation is often of very great value in arriving at an accurate diagnosis. It is also within limits serving an important function in providing psychiatric instruction to senior medical students and nurses, thus in time through them making possible not only the earlier diagnosis and treatment of mental illness, but also a more effective mental health programme for the Province.

TARLE N	0 1					
TABLE N In residence January 1st, 1932 First admissions during 1932 Re-admissions during 1932 Discharges during 1932 In residence December 31st, 1932			***********	52 4 52	58 6 63	T. 10 110 10 115 15
Prophylactic cases admitted during 1932 (non	phych	iatric)		11	6	17
Re-admissions prophylactic cases 1932			•••••	1	• • • • • • • • • • • • • • • • • • • •	1
TABLE N	o. 2					
SHOWING THE DISTRIBUTION OF THE AD	MISSI	ONS, JA	N. 1,	1932-DE	C. 31,	1932
Mode	M.	%	F.	%	T.	%
Voluntary		63.46	38	65.52	71	
Certificate 1	11	21.15	14	24.14	25	22.73

Voluntary	33	63.46	38	65.52	71	64.55
Certificate 1	11	21.15	14	24.14	25	22.73
Certificate 2			3	5.17	3	2.72
Warrant	5	9.62	3	5.17	8	7.27
From Institutions	3	5.77			3	2.72
Total	52		58		110	100%

TABLE No. 3
SHOWING THE MODE OF DISCHARGE OF PATIENTS ADMITTED,
JAN. 1, 1932-DEC. 31, 1932

Recovered	Male	% I 15.38	Female 5	% · 7.94	Total 13	% 11.30
Much Improved		9.61	_	6.35	9	7.83
	13	24.99	9	14.29	22	19.13
Improved	$\frac{12}{}$ 25	$\frac{23.08}{48.07}$	$\frac{13}{}$ 22	$\frac{20.63}{}$ 34.9	25 2 — 47	$\frac{21.74}{40.87}$
UnimprovedObservation		13.46 5.77 ——19.23	1	$ \begin{array}{c} 17.46 \\ 1.59 \\ \end{array} $ 19.0		15.65 3.48 ——19.13
Total Discharged	35	67.30	34	59.9	7 .69	60.00
Returned to Institutions: Ponoka Red Deer Oliver			••••			
Admitted to Institutions: Ponoka Red Deer Oliver			27	42.8	6 44 44	38.26
Oliver	17	32.69		12.0	— —	90.20
Deaths			2 2	3.1	7 2 2	
Total			63 10 10		115 15 15	
In residence Dec. 31st, 1932 Total	_		$\frac{10}{73}$		130	

	TABLE N	No. 4					
SH	OWING THE DIAGNOSIS OF THE ADM	MISSION	IS, JA	N. 1,	1932-I	DEC. 31,	1932
	Classification	M.	F.	Т.	Percen	tage	
1	Traumatic psychoses	1		1	0.91		
2 3	Senile psychoses	4		$\overline{4}$	3.63		
4	General paralysis	3	1	4	3.63		
5	Psychoses with cerebral syphilis	2	• • • • •	2	1.82		
7 8	Psychoses with brain tumour Psychoses with other brain or nervous	2	••••	24	1.02		
8	disease		1	1	0.91		
				12		10.90	
	Total Organic Psychoses			14		10.00	
9	Alcoholic psychoses	3		3			
	pay the same and t			3	2.72		
1.0	Psychoses due to drugs and other			0	4.14		
10	exogenous toxins						
12	Psychoses with other somatic diseases	3		3			
				3	2.72		
				9		5.44	
	Total						16.34
13	Manic-depressive psychoses: (a) Manic type	2	7	9			
	(b) Depressive type	4	3	7			
	(c) Other types	3	1	4			
				20	18.18		
14	Involutional melancholia	2	7	9	10.10		
					0.10		
				9	8.18	26.36	
15	Dementia praecox:					20.00	
10	(a) Simple	1	2	3			
	(b) Hebephrenic	2	7	9			
	(c) Catatonic(d) Paranoid	7	11	18			
	(u) Latanoid						
	D 11 1 11 11 11 11 11 11 11 11 11 11 11	1	3	$\frac{30}{4}$		27.27	
16	Paranoid and paranoid conditions	1	0				
				4		3.63	
	Total Functional Psychoses						73.60
17	Epileptic psychoses		1	1	0.91		
18	Psychoneuroses and neuroses:	****	_		0.00		
	(a) Hysterical type	****	1	1			
	(b) Psychasthenic type (anxiety and obsessive forms)		1	1			
	(c) Neurasthenic type	****					
	(d) Other types	••••		• • • •			
				2	1.82		
19	Psychoses with psychopathic personality	2		2	1.82		
20	Psychoses with mental deficiency	4	6	10	9.10		
21	Undiagnosed psychoses	****		****			
22	Without psychoses: (a) Epilepsy without psychoses	3		3			
	(b) Alcoholism without psychoses						
	(c) Drug addiction without psychoses	••••	••••	****			
	(d) Psychopathic personality without psychoses		1	1			
	(e) Mental deficiency without						
	psychoses	1	4	5	19.74		
	(f) Other conditions	4	1	5	12.74		
				14		23.66	
							100.00

TABLE No. 5

193	
31,	
1932-DEC. 31,	
l,	
JAN.	
DIED,	
OR	
TRANSFERRED OR DIED, JAN. 1, 1932-DEC. 31,	
SHOWING THE DIAGNOSIS OF PATIENTS DISCHARGED, TRA	
F PATIENTS	
OF	
DIAGNOSIS	
THE	
SHOWING	

32

Obser- vation M. F.					⊣ ; ; ;
Ob val M.	: : - : : : : : : : : : : : : : : : : : : :				: :- :
Red Deer A. F.					::::
M. M.					::::
Oliver M. F.					: : : :
Oli M.					::::
Ponoka M. F.	-		::«t :: H	20 : :::	:- : :
Pol M.	72 :::: 72 73	- 0	1 1 4 1 1 1		::::
Died M. F.		11 11-			::::
D.M.					
Unimp. M. F.		- -	- 1 2 - 1		: 60 : :
Uni M.	: : : : : : : : : : : : : : : : : : : :				<u>:</u> - : :
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In M.	-			2 2 1	1 17 7
ich ip. F.					
Much Imp. M. F.	i- : : : : :		- -		: :- :
ered F.			-		: : ₹ :
Recovered M. F.		[- [-a]	- -		: :- :
Classification	Senile psychoses Psychoses with cerebral arteriosclerosis General paralysis Sychoses with crebral syphilis Psychoses with brain tumour Psychoses with other brain or nervous diseases Alcoholic psychoses Psychoses due to drugs and other exogenous	toxins Psychoses with other somatic disease Manic-depressive psychoses: (a) Manic type (b) Depressive type (c) Other types Involutional melancholia Dementia praecox:	(a) Simple (b) Hebephrenic (c) Catatonic (d) Paranoid Paranoid and paranoid conditions Epileptic psychoses Psychoneuroses and neuroses: (a) Hysterical type (b) Psychasthenic	Neurasthenic to Other types Other types osses with psychoses with psychoses by psychoses beliepsy without psycholism without alloholism with Drug addiction Psychopathic p	psychoses (e) Mental deficiency without psychoses (f) Other conditions (g) Prophylactic cases (non-psychiatric)

TABLE No. 6

SHOWING THE RESIDENCE OF THE PATIENTS ADMITTED,

JAN. 1, 1932—DEC. 31, 1932			
Residence	Male	Female	Total
Calgary	3	1	4
Edmonton	25	23	48
Other towns	11	20	31
Rural	13	12	25
Manitoba		1	1
Saskatchewan		1	1
Total	52	58	110

TABLE No. 7

SHOWING BY WHOM PATIENTS REFERRED

Referred by	Male	Female	Total
Edmonton physicians	20	30	50
Other physicians	3	9	12
City hospitals	1		1
Mental Hygiene Clinic	2	4	6
Provincial Health Department	3	2	5
Provincial Relief Department		3	3
Attorney General's Department	2	1	3
Workmen's Compensation Board	1		1
Alberta Teachers' Alliance		1	1
Patient or relatives	1		1
Edmonton police	7	4	11
R.C.M.P.	8	2	10
Provincial institutions	3	1	4
Winnipeg Psychopathic Hospital		1	1
Unknown	-1		1
	_		
Total	52	58	110

TABLE No. 8

SHOWING THE NATIVITY OF THE PATIENTS ADMITTED,

JAN. 1, 1932-DEC	. 31, 19	32		
Birthplace	Male	Female	Total	Percentage
Canada		1	1	0.91
Alberta	4	10	14	12.72
British Columbia		1	1	0.91
Manitoba	2	1	3	2.72
Nova Scotia	2		2	1.82
Ontario	7	4	11	10.00
Prince Edward Island				
Quebec		1	1	0.91
Saskatchewan	1	3	4	3.63
Baskatchewan	16		_ 37	
Britain and other British Dominions:	- 10	- 41	- 01	00.00
England	8	9	17	15.46
Ireland	1	2	3	2.72
	4	5	9	8.18
Scotland	4	1	9 1	0.91
India	 13	17	30	
**				
United States of America	8	7	15	13.63
	— 8	- 7		
Other countries:			-	0.04
Denmark		1	1	0.91
Norway		2	2	1.82
Belgium		1	1	0.91
Switzerland	1		1	0.91
Germany	1	• • • • •	1	0.91
Galicia	1	****	1	0.91
Roumania	1		1	0.91
Hungary		1	1	0.91
Austria	4	1	5	4.55
Poland	4	2	6	5.45
Bohemia	1	1	2	1.82
Ukraine		3	3	2.72
Russia	1		1	0.91
Italy	1		1	0.91
Assyria		1	1	0.91
	15	- 13	- 28	25.46
Total	52	58	110	100.00

TABLE No. 9

SHOWING THE OCCUPATION OF THE PATIENTS ADMITTED, JAN. 1, 1932—DEC. 31, 1932

	-			200. 01, 2002			
Occupation.		Female.	Total.	Occupation.	Male.	Female.	Total.
Agent (insurance)	. 1		1	Labourer	. 6		6
Agent (real estate)	. 1		1	Miner	. 3		3
Butcher	. 1		1	Mine operator		****	1
Brakeman	. 1		1	Nil		7	8
Cook			2.	Nurse		i	1
Carpenter			3	Porter and clerk		_	î
Domestic		10	10	Policeman			1
Dealer (auto)			1	Student (public or high		••••	-
Dealer (truck)			î	school)		2	2
Ditch rider			î	Student (university)			1
Farmer			13	Salesman		1	2
Farmer and blacksmith			1	Stenographer		1	2
Farmer and rancher			1	Seamstress		1	1
Gardener			1			1	1
			1	Teacher		5	3
Housewife (urban)		16	16	Trapper			1
Housewife (rural)		16	16	Unemployed	. 2		2
Hostler	. 1		1				
Janitor	. 3		3	Total	. 52	58	110

TABLE No. 10

SHOWING THE MARITAL CONDITION AND AGE OF PATIENTS ADMITTED, JAN. 1, 1932–DEC. 31, 1932

		Sin	gle	Mar	ried	Wide	owed	Separ	ated	Divo	rced	Total	%
Age		M.	F.	M.	F.	M.	F.	M.	F.	Μ.	F.		
10-15			1				1 * * *					1	0.91
16 - 20		4	7									11	10.00
21 - 25		3	10		2			****				15	13.65
26 - 30		3	3	1	6							13	11.82
31-35		3	1	2	5		1					12	10.90
36-40		3		3	6				2			14	12.72
41 - 45		3	****	1	3	****			1			8	7 27
46 - 50		1	1	8	3		****	2				15	13.65
51 - 55		1		2	4			1	1			9	8.18
56-60		2		4	1							7	6.36
61 - 65		1		1		****						2	1.82
66 - 70				1		2						3	2.72
							_		*********				
Total		24	23	23	30	2	1	3	4			110	
%	4	46 16	39.66	44.23	51.73	3.84	1.72	5.77	6.89				
/0 *****		42.7		48.1			72%		6%	****	••••		100%

TABLE No. 11

SHOWING THE RELIGION OF PATIENTS ADMITTED, JAN. 1,1932-DEC. 31, 1932

Denomination	Male	Female	Total
Anglican	6	6	12
Baptist		1	1
Greek Catholic		2	2
Greek Orthodox	1	1	2
Jewish	-	1	1
Lutheran	1	Ē	10
E C C C C C C C C C C C C C C C C C C C	-#	1	1
Mohammedan		Ţ	1
Methodist		1	1
None		1	1
Protestant	17	11	28
Plymouth Brethren	1	1	2
Presbyterian	4	3	7
Roman Catholic	1.7	12	2.9
Rosicrucian		1	1
Seventh Day Adventist	****	1	î
United Church		7	7
	2	7	9
Unknown		2	2
Total	52	5.8	110

TABLE SHOWING NUMBER OF CONSULTATIONS

Consultations	Male 97 5	Female 54 7	Total 151 12
		-	
Total	102	61	163

TABLE SHOWING WHERE PATIENT SEEN

	Male 40	Female 25	Total 65
General hospitals	40		
In own home	7	6	13
Not seen, but case reported by relatives in consultation	2		2
Police Station	9	1	10
R.C.M.P. Guardroom	5		5
Provincial Gaol		1	1
At Psychopathic Ward, University Hospital	32	18	50
In city physician's offices	1	1	2
In Central Office, Administration Building	• • • •	1	1
	0.7	5.4	151

NUMBER OF CONSULTATION CASES RECOMMENDED OR ADMITTED TO THE PROVINCIAL MENTAL HOSPITALS OR THE PSYCHOPATHIC WARD, UNIVERSITY HOSPITAL

UNIVERSITY HOSPITAL		
Admitted to Psychopathic Ward	Male 16	Female 20
Provincial Mental Hospital, Ponoka	8	1
Provincial Mental Institute, Oliver		••••
Provincial Mental Hospital, Ponoka	7	1
Recommended for admission to a general hospital for a thorough	1	
examination	-	
Total	33	23
CONSULTATIONS REFERRED BY		
Referred by Doctors	Male 58	Female 40
Public Health Department (Provincial)	2	1 2
Relief Department (Provincial) Police Magistrates	10	1
Juvenile Court	1 5	****
R.C.M.P. Insurance Companies	1	1
Lawyers Pensions Advocate Department	1	1
Pensions and National Health	13	1
Soldiers' Civil Re-establishment Provincial Civil Service Commissioner	1	1
Parents	2	2
Self Unknown	2	4
Total	97	54
DIAGNOSIS OF THE CONSULTATIONS	Male	Female
Classification 1 Traumatic psychoses		****
2 Senile psychoses	4 8	$\frac{1}{2}$
4 General paralysis	2	
5 Psychoses with cerebral syphilis	2	••••
7 Psychoses with brain tumour	1	 1
8 Psychoses with other brain or nervous diseases 9 Alcoholic psychoses	3	
10 Psychoses due to drugs or other exogenous toxins	••••	••••
12 Psychoses with other somatic diseases	1	1
13 Manic-depressive psychoses: (a) Manic type		1
(b) Depressive type	2	2
(c) Other types	2	2
15 Dementia praecox: (a) Simple	1	
(b) Hebephrenic		
(c) Catatonic(d) Paranoid	6 7	4 5
16 Paranoia and paranoid conditions	4 3	1 1
18 Psychoneuroses and neuroses:	,	
(a) Hysterical (b) Psychasthenic	3	5 1
(c) Neurasthenic (d) Other types	8	3
Psychoneuroses not defined	2	4
19 Psychoses with psychopathic personality	1 3	4
21 Undiagnosed psychoses		
(a) Epilepsy without psychoses	2	1
(b) Alcoholism without psychoses	2	
(d) Psychopathic personality without psychoses		1
(e) Mental deficiency without psychoses	8 6	4
Not diagnosed	14	9
Total	97	54

Mental Hygiene Clinics

(C. A. Baragar, M.D., Commissioner of Mental Institutions and Director of Mental Health)

Three regular clinics are being conducted in the Province. The Edmonton Clinic is held every Tuesday afternoon from 2 to 5 p.m. in the outpatient department of the University Hospital; the Calgary Clinic every alternate Thursday in the baby clinic quarters of the Police Building; and the Lethbridge Clinic every fourth Friday in the Nursing Mission. Dr. Geo. A. Davidson, medical superintendent of the Provincial Mental Hospital, with the assistance of Mr. E. J. Kibblewhite, psychologist and social worker, has conducted the clinics at Calgary and Lethbridge, while Dr. W. J. McAlister, with the assistance of Miss Agnes Starkie, social worker, has attended the Edmonton Clinic. The Commissioner of Mental Institutions has kept closely in touch with all three clinics.

The assistance of Dr. H. E. Smith, of the department of philosophy of the University of Alberta, as consultant in psychology has been invaluable. The assistance of Miss Young, nurse in charge in Edmonton, of Miss Lavell and Miss Craig, public health nurses in Calgary, and of Miss Tilley, who has charge of the Nursing

Mission in Lethbridge, has proved indispensable.

As will be seen from the accompanying tables, there has been a steady increase in the work of the clinics since their inception. The new cases have increased from 52 in 1929, 142 in 1930, to 354 in 1931, with a slight falling off—only in Edmonton—in 1932. This slight decrease has been more than counterbalanced by a great increase in the follow-up work. The tables do not, moreover, cover a new phase of the work that has developed under Dr. Davidson's direction in the southern part of the Province—the follow-up work in connection with patients who have been discharged. This work alone is of very great importance and worthy of encouragement.

The work has grown so much in the Calgary and Lethbridge clinics that it is becoming increasingly difficult to complete it in

the day in each place at the clinician's disposal.

Patients visiting the clinics receive a physical (especially neurological) and a psychiatric examination, including a psychometric where indicated, and appropriate recommendations are made. For the correction of physical disabilities the patient is referred to his own physician. For problems arising out of a mental or social maladjustment the patient himself, or the parent or guardian, or the referring agency, is advised as to how the case may be dealt with. Interviews with parents or guardians are sought whenever possible in order that their confidence may be won and their intelligent and sympathetic co-operation secured.

Many different agencies have co-operated in referring cases, as will be seen by Table 4. The chief referring agencies are the Department of Dependent and Neglected Children, parents and

guardians, schools, health departments and doctors. The interest of these men and women in the mentally and socially handicapped

is reassuring.

It will be noted that 10.4% of the new cases were in the preschool age; 52.4% in the school period, while 37.3% were adults. In 41.4% of the cases mental deficiency with or without complications was a factor. In 8.4% of the cases epilepsy was a factor, and in 15.5% psychoses or prepsychotic states. In 15.9% behaviour problems without mental defect led to the patient being brought to the clinic.

While every possible assistance is given those referring cases to the clinic in solving their problems, it may be inferred from the nature of the cases that the work of adequately dealing with them is greatly handicapped by lack of accommodation at the Provincial Training School, and other appropriate facilities such as supervised hostels for boys and girls, farm colonies and suitable homes. In a new country, and particularly at a time of economic distress. one cannot expect to acquire all these facilities suddenly, but they constitute goals toward which we may work.

At present the clinics are touching but three centres. Yet there is definite evidence that they may be carried into other centres, and particularly into the Peace River district, as soon as the

economic situation will permit.

TABLE No. 1 SUMMARY OF CASES PRESENTED AND FOLLOW-UP REPORTS FOR THE YEARS 1931-1932

FOR	THE YE	ARS 193				Cases	
Clinic Edmonton Calgary	New Cases 201 95 58	931 Follow Ups 127 151 53	New Cases 123 131 55	932 Follow Ups 363 225 65	New Cases 467 419 130	Follow Ups 491 425 118	
Lethbridge	354	331	309	653	1,016	1,034	
Totals		685 962			2,050		

TABLE No. 2 AGE AND SEX CLASSIFICATION

	AGE A	ND SEA CLA	BBILION	1011	
	Edmonton	Calgary Le	ethbridge	Totals	Percentage_
			1. F. T.	M. F. T.	M. F. T.
	M. F. T.	212.			11.4 4.4 7.8
0- 5 years	8 2 10	6 4 10	3 1 4	A 1 1	
	8 11 19	23 14 37	5 5 10	36 30 66	24.3 18.8 21.1
6-10 years			5 4 9	34 36 70	22.8 22.5 22.7
11-15 years	14 12 26	10 10 00			12.1 21.2 16.8
16-20 years	9 11 20	3 20 23	6 3 9	10010	
	3 9 12	1 5 6	5 5	4 19 23	2.7 11.9 7.5
21-25 years			2 4 6	6 8 14	4.0 5.0 4.5
26-30 years	2 4 6				6.7 6.2 6.5
31-35 years	4 3 7	6 3 9	4 4	10 10 00	011
	14 9 23	7 2 9	3 5 8	24 16 40	16.0 10.0 12.9
36 years	14 0 20				
		404		309	100%
Total	123	131	55	309	100 /8

TABLE No. 3 CLASSIFICATION ACCORDING TO INTELLIGENCE QUOTIENT

CHILDRITICITIES	Edmonton		C	Calgary		Lethbridge		Total				
I.Q. 0-25	M. 6	F. 2	8	1	F. 1	T. 2			T. 2	M. 9	3	T.
26-50 51-75	4 16	8 19	12 35	17	3 28	5 45	_	10	15	42	15 58	100
Totals	26	29	55	20	32	52	8	12	20	59	76	135

TABLE No. 4

AGENCIES REFER	RING (CASES
----------------	--------	-------

	Agency	Edmonton	Calgary	Lethbridge	Total
	of Dependent and Neglected				
		36	9	****	45
	id Relief Department (City)	****	12		12
	rts	8		3	11
				4	4
		3	38		41
	Guardians	15	21	24	60
	anis	1		****	
	ntview		13	****	
	ds		3	****	
	any Lodge	3		****	20
Salvation Ari	my	3		****	3
	Department	7		****	7
City Health	Department	2			2
Provincial H	ealth Department	20	14	1	35
		11	5	9	25
Other Clinics		9	4	5	18
	partment		5	****	5
Roman Catho	olic Institutions		2		2
Indian Reser	ve Officials		2		2
	ouncils			3	3
Self		5		6	11
Other Agenc	ies		3		3
				_	
Tota	als	123	131	55	309

TABLE No. 5

CLASSIFICATION OF CASES

CLASSIFICATIO	N OF CAS	SES		
Classification	Edmonton	Calgary	Lethbridge	Total
Pre-School Age:				
For examination only, no trouble	••••	3	1	4
Infantile paralysis			1	1
Discipline or conduct problem with defect	1	4	1	6
Mental deficiency	7	4	2	13
Mental deficiency with behaviour problem	2			2
Epilepsy		3		3
Epilepsy with mental deficiency			1	1
Mentally unbalanced		1		1
Hydrocephalitis	1			1
223 020 00 20 10 11 11 11 11 11 11 11 11 11 11 11 11	— 11	15	- 6	
School Age:				
Vocation guidance only, no defect	1		6	7
Mental defect	22	6	4	32
Mental defect with behaviour problem	5	26	5	36
Personality defect	2	20		2
Behaviour problem without defect	11	27	3	41
Delinquency, stealing with mental defect	3			3
Delinquency, stealing, without mental	0	****	****	0
defect	5		****	5
Backwardness without defect		12	1	13
Epilepsy	1	4	2	7
Nervous condition	î	$\overline{7}$	3	11
Medical care only	$\frac{1}{2}$	2	1	5
nectical care only	- 53	84	_ 25	· ·
Adult:		0.1		
Mental deficiency	8	4	2	14
Mental deficiency with delinquency	2			2
Mental deficiency with sex delinquency	$\frac{1}{2}$	2	3	7
Mental deficiency with behaviour problem		ĩ		1
Mental deficiency with epilepsy	4	4	3	11
Delinquency without defect	2			2
Sex delinquency without defect	1		••••	1
Epilepsy without defect		1	3	4
Psychotic or pre-psychotic	3.2	17	9	5.8
Senility	4			4
Alcoholic deterioration	î			1
Nervousness		1	2	3
Encephalitis		2		2
Medical care only	3		2	5
medical care only	59	32	_ 24	
Totals	123	131	55	309

TABLE No. 6

CAUSE OF MENTAL DEFICIENCY

CHOOL OF MEDITION DELL	011101		
Cause	Edmonton	Calgary	Lethbridge
Some positive heredity known	31	12	9
Sickness, injury, epilepsy	10	9	1
Unknown	14	31	10
	***************************************	Name and Address of the Owner, where	
Totals	5.5	52	20

TABLE No. 6A

MAJOR COMPLICATIONS OF THE MENT	AL DEFICIE	ENCY CAS	SES
Complication	Edmonton	Calgary	Lethbridge
Behaviour and delinquency without sex delinquency	18	7	2
Sex delinquency	11	14	4
General retardation	18	15	
777 . 1	5.5	52	20

TABLE No. 6B

MAJOR RECOMMENDATIONS OF THE MENTAL DEFICIENCY CASES

III NOOTO TELICOTE ELECTRICA ELECTRICA ELECTRICA ELECTRICA ELECTRICA ELECTRICA ELECTRICA ELECTRICA ELECTRICA EL ELECTRICA EL		0.1	T . 4 h h i down
Recommendation	Edmonton	Calgary	Lethbridge
Sterilization and supervision	10	12	8
	21	2.6	3
Institutional training and care	41	20	9
Medical and surgical treatment	7	3	****
Medical treatment—epilepsy			2
Continue present treatment with periodical visits to	0	-	C
clinic	9	9	6
Modified school work			1
	1	5	****
Special class at school	±	· ·	
Placement in good home	9	****	****
Deportation	2	1	****
		_	
Totals	55	52	20

TABLE No. 7

CHIEF RECOMMENDATIONS AS TO TREATMENT

Recommendation	Edmonton	Calgary	Lethbridge	Total
Continue present treatment	10	30	3	43
Change in home discipline	10	21	6	37
Change in school discipline	3	2		5
Continue in school, but with vocational				
	9			2
emphasis	0	****	****	1
Training in self-discipline	4	****	••••	4
More organized social life	4	****	****	4
Placement in a good home	7	1	1	9
Closer supervision	9	****	****	9
Admission to special class	1	8	••••	9
Admission to Red Deer Training School	21	14	1	36
Admission to Ponoka Mental Hospital	11	6	5	22
Admission to Industrial School	4			4
Deportation	4	2		6
Medical treatment, including treatment by				
specialist and prescribed medical care	21	16	16	53
Sterilization followed by supervision	11	12	8	31
More occupational work and social contacts		4	3	7
Return to the Clinic for consultation and	****	*	0	,
examination		0	g	14
Other recommendations	****	o c	5	14
Other recommendations	****	6	3	9
m-4-1-	100	101		
Totals	123	131	55	309

Provincial Mental Hospital, Ponoka

(G. A. Davidson, Medical Superintendent)

At the beginning of the year there were 1,195 patients in residence—672 males and 523 females. This shows an increase of 92 patients as from January 1st, 1931. At the end of the year there were 1,217 patients in residence—621 males and 596 females. The actual number of male patients in residence was considerably less than at the beginning of the year, as 118 had been transferred, practically all to the Provincial Mental Institute at Oliver. The female patients, however, showed an increase of 73, and this increase has caused marked overcrowding on the female side of the hospital.

The total number of admissions for the year was 497, as compared with 416 for the preceding year (81 patients more). Of these, 393 (79.07%) were first admissions and 95 (19.11%) re-admissions. Nine (1.81%) were transferred from other institutions.

Of the first admissions, 95 (23.86%) were by voluntary application, while 298 were committed by various methods. The voluntary admissions have increased by about 5%, due largely to the still greater number of patients (51) with neurosyphilis but without psychosis, who were admitted for malarial treatment.

Of the admissions, 172 (35%) were Canadian born, 110 (22%) were natives of Great Britain or of British possessions, 89 (17.8%) were natives of the U.S.A., and 128 (25.7%) from all other countries

The increase in patients has been mainly in the Schizophrenic (increase of 32), manic-depressive (increase of 14), and non-psychotic neurosyphilitic (increase of 18) groups. Last year there was a greater increase in the psychoses associated with old age.

A total of 1,697 patients were treated during the year, an increase of 177 over last year.

During the year 268 patients were discharged, 120 were transferred to other institutions, 29 were deported and 61 died, totalling in all 478 patients. Two patients eloped during the year. The discharged rate as distinct from transfers, deportations and deaths was 53.4% of the total admission rate.

The death rate based on the total number under treatment and observation was 3.59%. This is again lower than last year's rate (3.95%; last year third lowest in history). Respiratory diseases (including tuberculosis, 7 cases) accounted for approximately 40% of the deaths; 9 deaths were due to general paresis and 2 to typhoid fever. We were extremely fortunate in having no case of suicide during the year. Two of the deaths were accidental.

ACCIDENTS

On the male side of the hospital there were 5 major accidents, two of which unfortunately resulted in death. An aged man was

attacked by another patient, and suffered severe lacerations to the head. While confined to bed he developed broncho-pneumonia and died. The second man died of rupture of the intestines, following a scuffle. There were also three fractures, one of the nose, the bones of the feet and of the humerus.

On the female side, 1 accidental death occurred when a woman died as a result of swallowing a dessert spoon. One patient was rather severely burned, and 1 patient suffered from a fracture of the upper right arm.

Considering the number of patients that are housed in rather crowded quarters, we may consider ourselves fortunate in the small number of accidents that have occurred.

GENERAL HEALTH

We have been fortunate in having but little sickness among the staff and patients. No serious epidemics occurred. During the year cases of typhoid fever have continued, a total of 10 cases with 2 deaths. All cases who might possibly be carriers have been isolated on one ward. We are grateful for assistance and suggestions from various members of the Department of Public Health. The isolated cases are being periodically examined in an effort to isolate typhoid bacilli from the stools and urine. All members of the female staff and all patients have been inoculated. In spite of this, an occasional case is reported.

The custom of doing physical examination on all members of the staff has been continued.

STAFF

On March 15th Dr. Geo. A. Davidson was promoted from Assistant Medical Superintendent to Medical Superintendent, succeeding Dr. C. A. Baragar, Commissioner of Mental Diseases and Director of Mental Health, who was Acting Superintendent.

Dr. R. R. MacLean recommenced duties in the hospital on January 18th, after having done post-graduate work in Boston, London and Zurich.

Dr. E. G. Simmonds terminated his appointment as temporary pathologist on September 30th, after having done most useful work for a year.

Dr. Douglas B. Roxburgh succeeded Dr. Simmonds as temporary pathologist.

Dr. Thos. C. Michie joined the medical staff of the hospital on October 10th. Dr. Michie has just completed a three-year fellow-ship at the Mayo Clinic, Rochester, Minnesota, and has proved a most useful addition to our staff.

Dr. H. C. Furst, after having served the hospital for about three years as assistant physician, resigned on October 31st, and left for London, England, to do post-graduate work.

Mr. A. Gill was promoted to the position of attendant in charge of hydrotherapy on May 1st.

Mr. W. T. Watts again filled the temporary position of student interne during the summer months.

Considering the size of the hospital and the large annual admission rate, the number on the medical staff was reported as too few last year. This is even more so this year, as the admissions have shown quite a marked increase. We appreciate the need for the most rigid economy at the present time, however.

CLINICAL WORK (REORGANIZATION)

This has been carried on as in the past year. Psychiatric, physical and neurological examinations are made following the admission of a patient. The physically ill patients have been cared for in the infirmaries. All cases are presented in staff conference shortly after admission, and cases are reviewed frequently to consider the advisability of the patient doing a certain type of work, having parole, or to consider the patient's discharge.

Medical staff conferences were continued at 8:30 a.m. on Tuesdays and Thursdays and at 1:30 p.m. on Wednesdays and Fridays.

The mode of admission decided upon last year has proved quite satisfactory. The ward arrangement has been left largely unchanged from last year. This is proving quite satisfactory.

Prophylactic malarial treatment has continued, and the number of cases admitted for this treatment has shown an increase. The following is a synopsis of the malarial treatment during the year: General paresis and tabo-paresis, 28 cases; cerebral syphilis, 1 case; asymptomatic neurosyphilis, 51 cases; total, 80 cases.

The Superintendent of the hospital has continued with the work of the Mental Hygiene Clinics in Calgary and Lethbridge, and has been assisted by periodic visits of the Commissioner. These clinics continue to be held fortnightly at Calgary and every four weeks

at Lethbridge.

DENTAL CLINIC

The dental work has continued successfully as in the past, under the direction of Dr. S. M. Snedden.

SUMMARI	OF THE WORK
Full upper and lower dentures	Gold inlays 5 Scalings 386 Treatments 1452 X-rayed 29 General anaesthetics 3 Extractions 1278
Prophylaxis 98	Abscessed teeth extracted

HYDROTHERAPY

Although this form of treatment has continued, it has not been used as much as in the past. This is due to the increase in the amount of occupational therapy being done. For certain types of cases the prolonged baths prove most useful. These are supplemented by massage, wet packs and electric cabinet treatment. Mr. Gill has done splendid work since taking charge of this department.

OCCUPATIONAL THERAPY

There has been a great increase in the amount of occupational therapy being done during the year. This is largely due to the energy and interest of Dr. MacLean. An attempt has been made to get everyone who is physically able doing something, and there is

a marked decrease in the number of idle patients on the wards. This has had a very valuable effect in keeping the patients healthier and more contented, and has resulted in some very useful work being done.

Additional occupational therapy rooms have been opened up on the wards. The outside workers have had groups allotted to them, and it has been possible by constant contact with the various groups to keep the patients beneficially and happily employed. Sometimes it has been necessary to change a patient from one group to another until eventually he finds his niche.

Most of this work has been done with the male patients, while the female patients have stayed with the more formal types of occupational work. There has been an increase in the amount of occupational work done on the wards. During the year also, groups of female patients were chosen to work in the gardens gathering the smaller vegetables, etc. These patients have worked under the supervision of nurses.

On the male side also plots were set aside for gardens for the elderly men. They were permitted to have a plot that they might consider their own, where they planted their gardens and cared for them during the year.

On the whole, it is felt that great progress has been made during the year in occupational work.

SOCIAL SERVICE

The hospital social worker has continued to devote most of his time to the Mental Hygiene Clinics, but has made periodic visits to the hospital to do the necessary work. In the Mental Hygiene Clinics a large amount of follow-up work has been done, and numerous ex-patients and relatives of patients are seen at these clinics both by the social worker and the physician in attendance. The relatives of patients appear to appreciate being able to receive information and advice at these clinics. With the amount of help available, however, no very extensive social service work can be attempted.

TRAINING SCHOOL

The training school had a most successful year. This was the first year that all three years of the training were given to student nurses, and the first class is preparing to graduate in the spring of 1933.

The first attendants' class to graduate will also be ready in the spring, and both men and women seem to be quite enthusiastic about their training.

 Λ post-graduate course is being conducted for general hospital nurses, and this is proving very popular with the nursing profession, judging by the number of applications being received for admission to this class. It is proposed to increase the time of this course to cover a period of 12 months.

This means a great deal of teaching, and, as most of it is done outside of regular hours, it means a good deal of work for the medical staff and the members of the nursing staff who are teaching. Great credit is due to the enthusiasm shown by the members of the

teaching staff, and each one has willingly undertaken his share of the work. We feel that training of nurses is an essential factor in the better understanding and treatment of patients.

The following were the numbers commencing in the various classes:

Nurses	' Tra	ining:		Attend	ants'	Training:	
		***************************************	8	3rd	year		27
2nd	year		17				
1st	year				year		10
		Doot Cuaduata	tudante	,		7	

LIBRARIES

The hospital is in need of a general library for patients. There are a few books scattered about the various wards, but insufficient to be of much use. It is hoped that a library may be developed before long. This could no doubt be instituted without much cost by making an appeal to the public for books.

A number of volumes were added to the medical library, and this library has been used extensively by the medical staff. During the winter months meetings were held each Monday evening to review the literature in the medical journals.

Religious Services

These have been continued as in the past, and are much enjoyed by the patients. We are very grateful to several of the ministers for their periodic visits to see patients.

RECREATION AND ENTERTAINMENT

Moving pictures have been continued to be shown throughout the year at weekly intervals. Silent pictures have been increasingly difficult to obtain, and it is evident that soon they will not be available. It is hoped that equipment may be secured for talking pictures, as the patients are very fond of the weekly show.

Patients' dances were again held fortnightly throughout the fall and winter seasons, and were much enjoyed by the patients. Discarded attendants' uniforms have been remodelled for patients, and the appearance of the patients has improved quite markedly.

Under the direction of Dr. W. H. Cassels a number of the staff produced Henry Van Dyke's "The Other Wise Man" for the benefit of the patients and as a Christmas entertainment. This was put on on December 23rd and was followed by the patients' Christmas tree. The patients' Christmas dinner was held as usual on December 25th, and was a very enjoyable affair.

It is hoped to organize a dramatic society and glee club early in 1933. We are grateful to Mrs. Haynes for a visit to the hospital in connection with the Christmas play. Mrs. Haynes, who is from the Department of Extension of the University of Alberta, gave many helpful suggestions.

The Oliver Dramatic Society again visited the hospital and entertained the patients with a play which was much appreciated.

The patients' and staff field day was again much enjoyed, and was held on August 10th. Many friends from Ponoka assisted with the programme, and their co-operation is always much appreciated.

The open-air skating rink again added a great deal to the enjoyment of patients and staff.

Recreational classes were conducted by the occupational department, and proved of great benefit and enjoyment to the patients.

The hospital football club, under the direction of Mr. Percy Mitchell, again had a most successful year, and demonstrated repeatedly that we have the finest collection of football players in our part of the Province. They were successful in bringing to the hospital the following trophies: The Snell Shield, football champions of Central Alberta; the Red Deer Citizens' Cup; the Ponoka Agricultural Society Cup.

A series of very enjoyable staff dances were again held throughout the year. Unfortunately, however, the floor in the reception room of the Nurses' Home was warped considerably, and will have to be refinished shortly. The staff "At Home" was again a most successful event, and was much enjoyed by the children of the staff as well as the grown-ups.

The tennis club was reorganized, and had a most successful year. Several tournaments were held.

A badminton club was organized among the staff, and the game has proved very popular. The recreation hall is used whenever available during the winter for badminton.

VISITORS

As in the past, many visitors have come to the hospital to see relatives. We are always glad to have them, and it gives us an opportunity of learning more of the patients and also of keeping the relatives informed as to the progress of patients, the difficulties of caring for certain types of patients, etc.

We consider ourselves fortunate in having had a number of people who are interested in our work visit the hospital. Several representatives from the United Farm Women's organization have been particularly welcome.

Official visitors, professional, departmental and otherwise, have visited the hospital. We are always pleased with their interest.

The Commissioner for Mental Diseases and Director of Mental Health has made almost weekly visits, and has proved a very great stimulus to the work, assisting greatly with plans for the betterment of the care being given to patients.

MEDICAL MEETINGS

These have been organized to be held every six weeks during the winter. An outside speaker is invited (usually from Edmonton or Calgary), and is regarded as the principal speaker. A member of our staff prepares a paper or a clinic for these meetings, and several fine papers have been prepared. These are much enjoyed by physicians in our neighborhood, and the meetings held during the year have been well attended.

ACCOMMODATION AND ALTERATIONS

Unfortunately, overcrowding has become more marked, and the accommodation we have has become inadequate. The overcrowding

is particularly marked on the female side of the hospital, and we hope that arrangements will soon be completed to take care of this overcrowding.

During the year arrangements were made to increase the lavatory and bathing accommodation on Ward 4. At the time of writing this report the alterations have been made. Four shower baths were put into this ward and the number of toilets increased. This ward is used mainly for men working outside, and the showers are very satisfactory.

The operating room is unsatisfactory, and will have to be improved before it is adequate to care for all necessary work. If this is done there is no reason why most of the cases passed by the Eugenics Board cannot be operated upon in this hospital with a considerable saving to the Province on hospital accommodation. In a hospital of this size it is necessary to be prepared for any type of surgical case, and we must be prepared also to handle several obstetrical cases during the year. All of this work can be quite satisfactorily done in a mental hospital, and furthermore it should be done, as general hospitals usually object to caring for mental patients. Our nurses in training can gain a good deal from this work.

An attempt has been made during the year to classify patients more satisfactorily. On the quieter wards an attempt has been made to brighten and make them more home-like.

Infirmary patients have been collected on definite wards, and this has worked out more satisfactorily as the patients can be given better attention.

The buildings have been kept in exceptionally good repair, and a good deal of painting has been done. This work is under the direction of Mr. D. J. Smith, Superintendent of Building Maintenance.

It is planned to change the entrance road to the hospital. There are two main reasons for this: (a) to give a better view of the buildings on approaching the hospital, and (b) to keep sightseers farther back from the buildings. This can be done without a great deal of difficulty.

DEPARTMENTAL ACTIVITIES

Laundry.—The laundry is hard pressed to keep up with the demands made upon it. Extra accommodation will no doubt have to be provided before long; 1,534,020 pieces were put through the laundry, a monthly average of 127,835 pieces.

Tailor Shop.—This has continued to do very good work, and many patients are usefully employed here. Most of them enjoy this type of work, and it will be of considerable benefit to some of them following their discharge.

SU	MMARY	
Blue uniforms 68	3 Strong blankets 11'	
Blue pants 6		7
Blue patients' suits	1 Tablecloths 14	
Corduroy coats 45		7
Corduroy pants 67		0
Shirts134	1 Cook's caps	6
Sheets213	5 Cook's coats 2	7
Nightshirts	7 Cook's pants 40	0
Pillow cases		4
Re-covering mattresses		5
Pillow ticks		1

Kitchen aprons Bath hammocks Bath covers Strait-jackets Restraint suits	13 15 4	Draw sheets Re-covering sheepskins Pack sheets Pyjama suits Pack blankets	16 100
Restraint suits	12	Pack blankets	12

Occupational Carpenter Shop.—About 40 patients are kept employed in this shop at all times. Much useful work is done both in the repair line and in the manufacture of new articles. This again is a department that the patients enjoy working in, and the work learned will prove of great benefit to them.

SUMMARY OF WORK

	REPAI		
Chairs		Rep. games	15
Blocks	94	Scythes	7
Beds		Sickles	2
Benches	151	Doctor's instruments	1
Tables	57	Laundry boxes	8
Bedside tables	10	Saws and axes painted	7
Ice saws	5	Pictures	11
Cross-cut saws	20	Couches	5
Cues	384	Dressers	16
Bread trucks	4	Benches	88
Bread boxes	11	Garden boxes	161
Screen windows	2	Dinner wagons	2
Axe handles	26	Smokers' stands	3
Shovels	25	Drawers	6
Rakes	5	Cushions	36
Forks	4	Garden sash	73
Crutches	2	Poultry farm glass	10
Pot covers (laundry)	5	Reaches	2
Squeegees	36	Chesterfields	4
Wagons	6	Self-feeders	26
Wagon tongues	6	Vegetable crates	9
Stencilled trays	99	Step ladders	7
Bedside screens	7	Hammer handles	2
Shears	21	Saw horses	2
			2
Nos. on serviette boxes 1 to		Desks	8
Scales	5	Knives for bread cutter	5
Card tables	8	Stools	
Kitchen paddles	6	Sharpening book-binding knives	8
	NEV	W.	
70 11			
Rubbers		Laundry boxes	
	11		11
Meat saws	2	Waste paper baskets	19
Mops	2 2	Waste paper baskets	19
MopsClothing boxes painted	2 2 11	Waste paper baskets Small tables Latrines	19 1 3
Mops	2 2 11 3	Waste paper baskets Small tables Latrines Cutlery boxes	19 1 3 2
Mops Clothing boxes painted Snow'scrapers School bus	2 2 11 3 2	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards	19 1 3 2 1
Mops	2 2 11 3 2 2	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames	19 1 3 2 1 2
Mops	2 2 11 3 2 2 18	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates	19 1 3 2 1 2 18
Mops Clothing boxes painted Snow'scrapers School bus Kettle lids Round pieces, 18in. by ½in	2 2 11 3 2 2 18 15	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards	19 1 3 2 1 2 18 3
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets	2 2 11 3 2 2 18 15 3	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs	19 1 3 2 1 2 18
Mops Clothing boxes painted Snow'scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets Crutches (pairs)	2 2 11 3 2 2 18 15 3	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes	19 1 3 2 1 2 18 3
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets	2 2 11 3 2 2 18 15 3	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen	19 1 3 2 1 2 18 3 18
Mops Clothing boxes painted Snow'scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets Crutches (pairs)	2 2 11 3 2 2 18 15 3	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen	19 1 3 2 1 2 18 3 18
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in Blocks Bed baskets Crutches (pairs) File boxes for desks	2 2 11 3 2 2 18 15 3 1	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down	19 1 3 2 1 2 18 3 18 1
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½ in Blocks Bed baskets Crutches (pairs) File boxes for desks Games	2 2 11 3 2 2 18 15 3 1 3 2	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down. Grain tanks	19 1 3 2 1 2 18 3 18 1 3 3 2 1
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches	2 2 11 3 2 2 18 15 3 1 3 2 2	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down Grain tanks Air yents for vegets	19 1 3 2 1 2 18 3 18 1 3 3 2
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches Cigarette makers	2 2 11 3 2 2 18 15 3 1 3 2 2 4	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down. Grain tanks Air vents for vegets. Hand carts	19 1 3 2 1 2 18 3 18 1 3 3 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches Cigarette makers Blackboards Bed blocks	2 2 11 3 2 2 18 15 3 1 3 2 2 2 4 6	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down. Grain tanks Air vents for vegets Hand carts Stools	19 1 3 2 1 2 18 3 18 3 18 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
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Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches Cigarette makers Blackboards Bed blocks Garden boxes Singletrees	2 2 11 3 2 2 18 15 3 1 3 21 2 2 4 6 20 45 18	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down Grain tanks Air vents for vegets Hand carts Stools Bunkers, 6 ft. Filing shelves	19 1 3 2 1 1 2 18 3 3 18 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 2 2 2
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Mops Clothing boxes painted Snow'scrapers School bus Kettle lids Round pieces, 18in. by ½in. Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches Cigarette makers Blackboards Bed blocks Garden boxes Singletrees Eveners Open feeders	2 2 11 3 2 18 15 3 1 3 21 2 4 6 6 45 18	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down. Grain tanks Air vents for vegets Hand carts Stools Bunkers, 6 ft Filing shelves Picture hangers Toys for Red Deer	19 1 3 2 1 2 18 3 18 1 3 3 2 1 2 1 2 2 1 2 6 2 2 3 4 2 1 2 1 2 2 1 2 1 2 2 1 2 2 2 2 2 2 2
Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches Cigarette makers Blackboards Bed blocks Garden boxes Singletrees Eveners Open feeders Saw horses	2 2 11 3 2 18 15 3 1 3 21 2 4 6 20 45 18	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down Grain tanks Air vents for vegets Hand carts Stools Bunkers, 6 ft. Filing shelves Picture hangers Toys for Red Deer Filing boards	19 1 3 2 1 18 3 18 3 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
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Mops Clothing boxes painted Snow scrapers School bus Kettle lids Round pieces, 18in. by ½in Blocks Bed baskets Crutches (pairs) File boxes for desks Games Saw benches Cigarette makers Blackboards Bed blocks Garden boxes Singletrees Eveners Open feeders Saw horses	2 2 11 3 2 18 15 3 1 3 21 2 4 6 20 45 18	Waste paper baskets Small tables Latrines Cutlery boxes Bread boards Garage frames Fattening crates Notice boards Buttermilk troughs Garden grass rakes Signs for kitchen Benches cut down Grain tanks Air vents for vegets Hand carts Stools Bunkers, 6 ft. Filing shelves Picture hangers Toys for Red Deer Filing boards	19 1 3 2 1 18 3 18 3 3 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2

FOR STAFF

Children's chairs, doll's bed and sewing cabinet, dolls' beds, magazine racks, children's sets, child's rocker, stand, magazine table, child's rocker and table, retouching board, child's rocker, sewing kits, small block, repair child's toy, book shelves, iron boards, hinges on stool, lock, box, repair door, boat and seat, piano stool, combination doors, table top, screen for windows, cat chair, shoe box, cedar boxes, frames, repair chair, repairs, repair dresser, rocking chair, chair repaired and frames, book stands.

FOR BASKETRY DEPARTMENT

Tie rack Magazine racks Stools for canning Child's chairs	9 14 6	Child's tables Child's table stools Child's bed tables Child's book racks	
Child's stools	6	Child's cedar books	3

Sewing Room.—Eight to twelve female patients are kept employed in this department. An additional seamstress was employed during the year, and practically all nurses' uniforms are now made in this department. In addition to this, the patients' dresses, night-gowns, etc., are made. An attempt has been made to provide more individuality in the clothing of the women.

Stores.—This department is kept very busy daily and, in spite of inadequate accommodation, they continue to do good work.

Kitchens and Dining Rooms.—Slight alterations have been made here in order to handle the garbage more satisfactorily. For an institution the size of this the kitchens are very small. The members of the culinary staff are to be commended for the work they do in spite of the marked overcrowding.

Cafeterias are now operating satisfactorily in both the male and female dining rooms. These have proved of great benefit, and the meals can be served much hotter than they ever could before. As well as this, patients are allowed a choice of certain dishes.

Garden and Grounds.—An occasional visit has been made to the hospital by Mr. Alex. Paton, Provincial Gardener, and our gardener, Mr. F. H. Mayled, has worked hard on the grounds. Recreation grounds have been laid out, many trees and borders planted, and it is planned to change the entrance to the hospital.

Throughout all seasons flowering plants and cut flowers are supplied to the wards and do much to brighten them.

Farm.—As usual the complete report of farm activities is being submitted under separate cover. Things are working smoothly in this department, and many patients are kept engaged in healthy occupation.

Conclusion

The co-operation of the officers and employees of this hospital have been particularly good, and great praise is due to all of them for the work that they have done. I sincerely believe that our patients are well cared for, and one rarely hears complaints from patients about members of the staff. This, indeed, is very exceptional in mental hospitals. I feel very gratified with the way in which things have gone on during the year.

I deeply appreciate the sympathetic co-operation that we have received from the Minister and Deputy Minister of Health. The interest and help of the Commissioner of Mental Institutions and Director of Mental Health cannot be overestimated. Without his aid it is felt that the progress made during the year would have been much less.

On the whole, the excellent co-operation from all sides has made it a pleasure to be the Superintendent of this hospital.

TABLE No. 1

MOVEMENT OF PATIENT POPULATION DURING 1932

	Male.	Female.	Total.	Male.	Female.	. Total
In Residence Jan. 1, 1932	*****	1./		672	523	1195
Admissions:						
First Admissions:						
(a) Voluntary	69	27	96		*****	
(b) Certificate	25	41	66		•••••	
(c) Warrant	150	68	218			******
(d) Order	7	5	12	\$ 10 ******		*****
(e) Transfers	6	4	10	*****	******	
Re-admissions:		0	20			
(a) Voluntary	12	8			*****	*****
(b) Certificate	6	4	10 65	******	******	
(c) Warrant	39	26	1	******	*****	******
(d) Order	1		1		******	
Returned from Elopement	1 2	1	3		*****	3
Returned from L. of A				318	184	502
				990	707	1697
Discharged during year:	36	26	62			
(a) As recovered	78	32	110			
(b) As improved	11	10	21	!		*****
(c) As unimproved	56	19	75		*****	• • • • • • • • • • • • • • • • • • • •
(d) As without psychosis	118	2	120	· ······		*****
(e) Transferred to other hospitals	2		2	*****		
(f) Eloped	23	6	29	******	*****	
(g) Deported to other countries	45	16	61	0.00	111	400
(h) Deaths				369	111	480
In residence at end of year	621	596	1217		*****	
On leave of absence or otherwise absent	2	2	4	•••••		
Total patients at end of year				623	598	1221

TABLE No. 2 SHOWING THE PSYCHOSES IN THOSE ADMITTED DURING 1932

	Psychoses	Male.	Female.	Total.
1	Traumatic psychoses			
2	Senile psychoses	8	6	14
3	Psychoses with cerebral arteriosclerosis	26	4	30
4	General paralysis	25	3	28
5	Psychoses with cerebral syphilis	1		1
6	Psychoses with Huntington's Chorea	2	1	3
7	Psychoses with brain tumour	3		3
8	Psychoses with other brain or nervous diseases:			
	(a) Cerebral embolism	1		1
	(b) Chronic encephalitis	3	1	4
	(c) Brain tumour	1	*****	1
	(d) Brain lesion	*****	1	1
	(e) Symptomatic epilepsy		1	1
9	Alcoholic psychoses:			
	(a) Delirium tremens	1		1
	(b) Acute hallucinosis	3	2	5
10	Psychoses due to drugs and other exogenous toxins:	4		-
	Unknown toxin	1	*****	1
11	Psychoses with pellagra	*****	*****	•••••
12	Psychoses with other somatic diseases:		1	1
	(a) Post-infectious(b) Exhaustion delirium	1	_	1
10		1	*****	1
13	Manic-depressive psychoses: (a) Manic type	16	14	30
	(b) Depressive type	9	15	24
	(c) Mixed		2	2
	(d) Circular	1	4	í
14	Involutional melancholia	* 3	5	8
15	Dementia praecox (Schizophrenia):	· ·		Ü
10	(a) Paranoid	36	16	52
	(b) Catatonic	44	34	78
	(c) Hebephrenic	5	6	11
	(d) Simple	3	3	6
	(e) Mixed		1	1
16	Paranoia and Paranoid Conditions	7	4	11
17	Epileptic psychoses	12	7	19
18	Psychoneuroses and neuroses:			
	(a) Hysterical type	1		1
	(b) Psychasthenic type		2	2
	(c) Neurasthenic type	1	1	2
19	Psychoses with psychopathic personality	3	1	4
20	Psychoses with Mental Deficiency	16	17	33
21	Undiagnosed psychoses	12	4	16
22	Without psychoses:	3	1	4
	(a) Epilepsy	2	1	3
	(b) Alcoholism	3	3	6
	(d) Psychopathic personality	1		1
	(e) Mental deficiency	16	11	27
	(f) Slowly evolving Schizophrenia	ĭ		i
	(g) Psychoneuroses	ī	2	3
	(h) Chronic encephalitis	1	$\bar{1}$	2
	(i) Cerebral tumour		1	1
	(j) Neurosyphilis	41	10	51
	(k) Suprasellar cyst	*****	1	1
	(1) Achalasia of the cardia	1		1
	(m) Observation on criminal charge	1	*****	1
			400	400
	Total	316	183	499

	PRINCIPAL
	TO
	REFERENCE
	WITH
0.3	1932
TABLE N	DURING
	ADMITTED
	PATIENTS
	OF
	CONDITION
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MARITAL CONDITION OF Psychoses	ITION OF PATIENTS	ADMITTED Totals M. F. T.	TTED Us	DUR.	DURING 1932 Single. M. F. T.		WITH Ma Ma M.	TH REF Married. 1. F. '	ERE.	Wie M.	Widowed.	PRII d. T.	Sep M.	Separated.	WITH REFERENCE TO PRINCIPAL PSYCHOSES Married. Widowed. Separated. Dive M. F. T. M. F. T. M. F. T. M. I	Div.	SES Divorced. I. F. T	J.
Senile psychoses Psychoses with cerebral affection of the psychoses with the psychoses with Hunting the psychoses with brain tun Psychoses with other br	Senile psychoses Psychoses with cerebral arteriosclerosis. General paralysis Psychoses with cerebral syphilis Psychoses with Huntington's Chorea Psychoses with brain tumour Psychoses with other brain or nervous	22882868	4000	100110		1210011	100110	∞4° : □ :	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		m : : : : :	998 :: 1			- :- : : :	11-11		
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(a) Manic type (b) Depressive type (c) Mixed	ophrenia):	16 9	22 8 1 2 4 2 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	0 : 1 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	122 : : : 232	04 :1 : 40	10 00 11 00 1	66 :: 4 112	117 116 30 30 30	T : : : : : : : : : : : : : : : : : : :	22 :::	88 : : H H # : :	::::= -::	:00 :: 00 :: :00 :: 00 ::	[00] H 00 []	-:::: -::		- -
Paranoia and Paranoid Conc Epileptic psychoses Psychoneuroses and neuros (a) Hysterical type (b) Psychasthenic type (c) Neurasthenic type (c) Neurasthenic type Psychoses with psychopathic	Conditions uroses: type type athic personality. deficiency	:	110 123 148 160 170 170 170 170 170 170 170 170 170 17	יים ה החמני	7 :: : 2 :: - 2 :: - 2	4 :-4 122246		1 m m i i i i i i i i i i i i i i i i i	4 :00 ::: :00F	:::- :::::	-	::-a ::::::::::::::::::::::::::::::::::	:::" ::::":	<u>:</u>	- - -			

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Without psychoses:	(a) Epilepsy	Alcoholism .	Drug addict	Psychopathic ne	Mental deficiency	(f) Slowly evolving Schizophrenia	Psychoneuroses	(h) Chronic encephalitis	(i) Cerebral tumour	(i) Neurosyphilis	(k) Suprasellar cyst	(1) Achalasia of the cardia	(m) Observation on criminal charge	Total
1														

DEPARTMENT OF PUBLIC HEALTH

TABLE No. 4 AGES OF PATIENTS ADMITTED DURING 1932

		Ag	es		Adm	irst issions Female	Re-ad Male	missions Female		Total Fema	le Total
Hn	der	15	years		3				3	****	3
51	to	19	years		40	12		2	12	14	26
-			y cars	***************************************	19	22	5	4	24	26	50
20	to	24	66		40	24	5	3	45	27	72
25	to	29	44	***************************************	A (/	20	10	4	46	24	70
30	to	34			36		10	**		26	59
35	to	39	6.6		30	19	3	.7	33		
40	to	44	66		25	17	8	3	33	20	53
45	to	49	6.6		23	8	7	5	30	13	43
		54	66	***************************************	2.2	11	9	5	31	16	47
50	to		66	***************************************	0.1	3	5 .	3	26	6	32
55	to	59		***************************************	41	-	9	0	16	6	22
60	to	64	6.6		14	4	Z	2	10		10
65	to	69	6.6		4	3	3		.7	3	13
70	an	d o	ver		9	2	1	****	10	2	12
			Total		258	145	58	38	316	183	499

TABLE No. 5

NATIVITIES OF PATIENTS ADMITTED DURING 1932

Nativity.	Male F	emale	Total	Nativity.	Male	Female	Total
Canada	102	70	172	Greece	1	• • • •	1
England	40	22	62	Holland		1	1
Scotland		8	25	Hungary	5	2	7
Ireland	-	4	11	Italy	3		3
Wales		3	5	Japan		2	2
Newfoundland	2	1	3	Jugo-Slavia	3		3
New Zealand	****	1	1	Norway	5	6	11
India	2		2	Poland	19	10	29
British West Indies	1		1	Roumania	2	1	3
Austria	13	5	18	Russia	5	3	8
Belgium	1	2	3	Sweden	8	3	11
Czecho-Slovakia	3	2	5	Switzerland	1	1	2
Denmark	1		1	Ukrainia		1	1
Finland	5	****	5	U.S.A	59	30	89
France	1		1				
Germany	8	5	13	Total	316	183	499

DISCHARGES, CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITION OF DISCHARGE FOR THE YEAR 1932

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	Psychoses.	1 Traumatic	2 Senile		4 General paralysis			7 With brain tumour	8 With other brain or nervous disease	9 Alcoholic	10 Due to drugs and other exogenous toxins	11 With pellagra	12 With other somatic disease	13 Manic-depressive	-	Dementia praecox (Schizo	noid conditions		18 Psychoneuroses and neuroses	19 With psychopathic personality	20 With mental deficiency		chos		Total

TABLE No. 7
DISCHARGES DURING 1932—SHOWING DURATION OF RESIDENCE

				Under			Under		Under		5	Under			Under		Cu	Under		0	Over	
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TABLE No. 8
RECORD OF DEATHS DURING 1932

						THS DOMING 1352
Registe	er Sex.	Ago	Time Years. I	in Hos		. Cause of Death.
No.		Age.				
5433	M	56	2	2	14	General paralysis; aortic incompetence.
5085	M	59	1	1	12	General paralysis; erysipelas. General paralysis; hyaronephrosis.
4129	M	36	2	8 5	24	Senile exhaustion; cardiac failure.
5334	M M	61 55	••••		23	General paralysis; malaria.
5496	F	82	****	1	17	Hypostatic pneumonia; senile psychosis with
5485	Г	04			1.	exhaustion.
5514	M	48	1	1		Cardio-vascular syphilis; general paralysis.
5459	M	62		2	24	Cerebellar haemorrhage; arteriosclerosis.
4087	M	52	3	$\overline{10}$	27	Huntington's chorea.
5423	M	52	1	4	20	Tuberculous broncho-pneumonia; general
0120	212					paralysis.
561	M	79	17	10	11	Broncho-pneumonia.
4550	M	50	2	7	26	General paralysis; status epilepticus, ex-
						haustion.
3368	M	70	6	2	25	Chronic myocarditis and arteriosclerosis.
5465	M	61		8	6	Broncho-pneumonia; arteriosclerosis.
5181	M	29	1	4	21	Cerebral haemorrhage.
5365	M	53		6	1	Aortic stenosis, mitral stenosis, myocardial
					0.0	degeneration, decompensatio.
3457	M	34	6	3	28	Typhoid fever, toxaemia; myocardial de-
	2004	0.0	0.1		~	generation.
158	F	80	21	4	5	Lobar pneumonia.
5782	M	64	••••	1	5	Chronic endocarditis; mitral incompetence,
~ ~ ~ ~	-	0.5	4	9	1.0	syncope. Acute tuberculous broncho-pneumonia.
5268	F	25	1	3	19	
5800	M	62	****	1	18	Brain tumour. Broncho-pneumonia; brain tumour.
5812	M	34	2	6	6	Broncho-pneumonia with arteriosclerosis.
4828	M	72 41			4	Acute bronchitis.
5851	M M	57	21	2	13	Duodenal ulcer with obstruction.
$\frac{18}{5737}$	M	46	41	3	16	Frontal lobe tumour.
5746	M	65		3	12	Carcinoma of lungs and kidneys.
123	F	56	24	ĭ	22	Pulmonary tuberculosis.
3881	M	54	4	8	4	Myosarcoma; metastases.
5651	M	51	••••		9	Hypostatic pneumonia; Schizophrenia (Cat-
0001	414	0.2				atonic type).
2437	M	53	9	11	27	Epilepsy.
4880	M	68	2		9	Hypostatic pneumonia; senile psychosis.
3331	F	37	4	11	18	Pulmonary tuberculosis; Schizophrenia (par-
						anoid type).
5681	M	57			8	Exhaustion due to Huntington's chorea;
						chronic nephritis.
5458	M	77		6	10	Hypostatic pneumonia; senile psychosis.
5100	M	70	1	5	13	Rheumatic carditis; mitral incompetence, de-
					4.0	compensation.
1948	F	68	11	11	10	Rheumatic carditis; mitral stenosis with
	-	2.0			-1	decompensation.
5734	F	63	• • • •	****	1	Cerebral haemorrhage.
5726	M	43		****	18	Cellulitis of arm. Broncho-pneumonia; Huntington's chorea.
4547	M	65	3 4	4	16 2	Arteriosclerosis; exhaustion.
3952	M	61	6	3		Epilepsy with marked cortical changes (left).
3347	M M	24 72		8 8		Broncho-pneumonia; epithelioma of lip.
5332	F	67	12	4	28	Tuberculous broncho-pneumonia.
$\begin{array}{c} 1776 \\ 5299 \end{array}$	F	75		9	2	Senile psychosis; hyopstatic congestion.
5080	M	38	1	3	28	Tuberculous broncho-pneumonia; keratoder-
0000	141	90	1		-	mia blenorrhagia.
5577	M	5.5			30	Lobar pneumonia; cerebral haemorrhage.
2960	F	43	7	9	28	Chronic nephritis; cardiac decompensation.
1894	F	57	11	10	27	Cardiac decompensation, mitral stenosis.
2948	M	50	7	10	15	Acute peritonitis; rupture small intestine.
5592	F	37		1		Malaria with acute necrosis of liver; general
						paralysis.
5457	M	52		4	27	Broncho-pneumonia, general paralysis, and
						cardio-vascular syphilis.
5448	\mathbf{F}	28		5	9	Haemorrhage from oesophagus and arch of
						aorta; swallowing spoon.
377	F	36	18	11	10	Typhoid fever, exhaustion.
5883	M	36		1	13	General paralysis.
5682	F	50		6	21	Chronic nephritis, arteriosclerosis.
5119	M	39	1	10	25	Tuberculous broncho-pneumonia; pulmonary
						tuberculosis.
5949	M	54	,	****	8	Broncho-pneumonia; cerebral tumour. Broncho-pneumonia.
5947	M	50	••••		12	Lung abscess with arteriosclerosis com-
5689	M	66		6	28	plicating.

TABLE No. 9

PLACE OF RESIDENCE AT TIME OF COMMITTAL, 1932

Place.	Male	Female	Total	Place.	Male	Female	Total
Alberta Beach	. 1		1	Hillsdown	. 1		1
Arbutus		1	1	Hines Creek		2	2
Ardley		1	1	Holden		1	1
Arrowwood			1	Hope Valley		1	1
Ashmont	. 1		1	Hussar			1
Athabasca	. 2		2	Iddesleigh			1
Banff		1	1	Innisfail		1	4
Beaumont		1	$\frac{1}{2}$	InnisfreeIrricana		1	2
Beauvallon	1		1	Jarvie		1	1
Bellevue		1	î	Judah		ī	î
Bentley	1		1	Kelsey			1
Big Bay	1		1	Lacombe		1	8
Big - Valley Black Diamond		1	1	LaGlace		1	1
Blackie		1	1	Lavoy		1	2
Blairmore	1		î	Legal			1
Bluffton		1	1	Leduc		1	1
Bonnyville	2	1	3	Leicester		••••	1
Brant	1	*****	1	Leslieville		1	2
Burstall (Sask.)	****	1	1	LethbridgeLloydminster		10	$\frac{24}{2}$
Calgary	61	35	96	Lousana		1	2
Cadogan	1		1	Lomond		1	1
Calmar	1		1	Lucky Strike		1	1
Camrose	3		3 1	Lyalta		1	1
Carstairs	••••	1 1	1	Mackay	. 1	1	1
Castor		1	3	Maple Leaf	. 1	1	1
Cereal		1	1	Mayerthorpe	. 1		î
Champion		1	1	Mayton		1	1
Cherhill		1	1	Meadowbrook	. 1		1
Claresholm	3		1 3	Medicine Hat Midnapore	. 1	3 2	4
Clear Hills		1	1	Millet	1		1
Clive		1	1	Mirror	. 1		1
Clover Bar			1	Morinville		1	1
Coalhurst	• • • •	2	2	Mundare	. 1	1	2
Cold Lake	1	1	1 1	Myrnam		2	2
Condor		****	1	Nanton Nevis	. 1	1	2
Coleman		1	1	Newcastle	1		1
Conklin	1	****	1	New Norway	2.		2
Coronation	1		1	Nordegg	1		1
Craigmyle	1	$\frac{1}{2}$	2 2	North Star	1	• • • • •	1
Crooked Creek	1		í	Notikewin Ohaton	1	1	1
Crossfield		1	1	Olds	2	1	$\frac{2}{2}$
Czar	1		1	Onion Lake	2		2
Dalemead Daysland			1	Onoway	1		1
Deadwood		1	2	Passburg	1		1
Delburne	1		1	Peavine	1	1	1
Delia		1	ī	Pembina	1		1
De Winton		1	1	Perryvale	1		i
Didsbury	2	****	2	Phillips	1		1
Dodds	1	1	1	Prosperity	3	2	5
Drumheller	4		4	Provost	1		1
Duhamel	1		1	Rabbit Hill		1	1
Duvernay	0.7	9.0	1	Raymond		1	î
Edmonton	1	33	100	Red Deer	• • • •	2	2
Edberg			1	Redlands	1	1	1
Eckville	1		1	Reno	1	****	1
Edson		1	3	Rimbey	1	1	2
Edward	1	1	1	Rochester	1		1
Elk Point	1		1 1	Rocky Mountain House Rosedale	2		2
Enchant		1	î	Rylev			1
Eyremore		****	1	St. Edouard	1	1	1
Fernie (B.C.)	1		1	St. Lina	1		1
Fishburn	1	1	1	St. Paul		3	3
Fort St. John (B.C.)	1		1	St. Vincent Sangudo	1		1
Gadsby	1		1	Sexsmith	1	• • • •	1
Gleichen	1	1	2	Snandro	1	1	1
Gilwood	1	• • • •	1	Snepard	1	1	1
Gould	1 2	• • • • •	1 2	Shonts	1		1
Grande Prairie		2	2	Smoky Lake Spirit River	1	• • • •	1
Halkirk		1	1	Standard	1	••••	1
Hanna		1	2	Stanmore		1	1
Hardieville	1	1	2	Sterco	1		1
High River	1	1	1	Styal	1		1
Hillcrest		1	1	Sunnybrook Sunset Prairie (B.C.)		2	2
				(B.C.)	1	****	1

TABLE No. 9—Continued

Place.	Male	Female	Total	Place. M	ale Femal	e Total
Sylvan Lake	1	****	1	Vimy	1	1
Thorhild	1	1	2	Vulcan	1	1
Tofield	4	****	4	Warburg	1	1
Tomahawk	1	****	1	Warner	1	1
Toronto (Ontario)	1	****	1	Warspite		1
Travers	1	****	1	Waskatenau	3 1	4
Trout Lake	1		1	Wayne	4	4
Turner Valley	1	****	1	Webster	1	1
Two Hills	1		1	Wetaskiwin	3 1	4
Vancouver (B.C.)	2		2	Winfield	1	1
Vegreville	1	1	2	Wood River	1	1
Vermilion		2	2	Yates	1	1
Veteran		1	1	_		
Vilna	1	• • • •	1	Total3	16 183	499

Provincial Mental Institute, Edmonton, Alberta

(W. J. McAllister, M.D., Medical Superintendent)

The movement of population outward was again limited, but with the opening of the new service building in February we were enabled by the end of the year to admit an additional 124 patients, 118 being transfers from Ponoka. These new admissions increased our population to a total of 424 patients, but their admission did not alter our status to any appreciable extent. We still remain essentially a hospital for chronic patients, hence we cannot hope for any marked activity at any time along the lines of probation and discharge.

The three cases shown as transfers—Table No. I—were cases of pulmonary tuberculosis taken to the mental hospital at Ponoka for more adequate treatment.

Health Services.—The general health of our population has been remarkably good. There were no epidemics, few medical or surgical cases, and few accidents of a serious nature. Much of the credit for this excellent showing is due to Dr. Valens, Medical Officer, and all those other members of the staff, the nature of whose work brings them into intimate contact with the patients.

I would also draw your attention to the low mortality rate as shown in Table XIV. The three transfers, all of whom have since died, should also be considered in this table, for while actually off our roster of patients, the disease in each case was contracted prior to transfer to Ponoka.

Therapy.—Table III shows that all but 77 of the patients were employed in some capacity. Many, due to their mental state, are incapable of any really constructive work. Many others, however, are gainfully employed and are making a really valuable contribution towards institutional maintenance. We could go considerably farther in occupational therapy than we have, provided we were permitted sufficient staff to allow of additional "group" training and supervision.

Dental Service.—Dr. Heacock devoted a good deal of his time during the year towards prophylaxis and actual dental treatment of all those patients requiring such attention. This work has aided materially in maintaining the high standard of health previously mentioned.

Special Services.—Through the office of the Commissioner, the services of Dr. M. R. Levy were made available for examination of the eye, ear, nose and throat. We already have a number of cases requiring an early check-up on possible refractive errors and other conditions involving the special sense organs, and the initiation of this consultant service should prove an additional aid towards our efforts to maintain an adequate standard of medical service within the institution.

Nursing Service (Sick Ward).—This is inadequate, but I cannot see that much can be done without a complete reorganization and the introduction of female nursing staff.

Institutional Needs.—No action so far has been taken to provide outdoor accommodation for our more or less invalid type of patient.

We are now filled to capacity. Any noted increase in admissions will result in a state of "overcrowding," a condition which should be avoided, and only resorted to as an emergency.

TABLE No. 1			
MOVEMENT OF INSANE POPULATION	Malaa	Females	Total
Patients on Books Jan. 1st, 1932: (a) In Hospital	Males 316	remales	316
(b) On Probation	ā		
Total	316		316
Admissions during year:	4		4
(a) First Admissions	4 2		2
(c) Transfers	118		118
Total	124		124
Total Received during year:	110		118
(a) Transfers(b) Readmissions	$\frac{118}{2}$		2
(c) By Warrant	4		4
(d) By Voluntary Application	·	9 40	
Total	124		124
Total on Books during year	440	· · · · · · · · · · · · · · · · · · ·	440
Discharged during year:			S
(a) As Recovered	3		3
(c) As Unimproved	3		3
(d) Without Psychoses	3	******	3
(f) Died during year	7	×	7
	16		16
Total			
Patients on Books end of Year:	424		424
(a) In Hospital	444	******	121
	404		424
Total	424		444
Total Admitted since opening	597		597
Total Discharged since opening	120		120
Total Died since opening	59		59
TABLE No. 2			
NUMBER OF OFFICERS AND EMPLOYEE			
Males Females Total Social Workers			
Medical Superintendent11TeachersMedical Officer11Occupational There			1
Dentist	ry 3		3
Administrative Asst 1 1 Laundry			2 3
Bursar			9
Stenographer 1 1 Other Male Emplo	yees 7	••••	7
Night Supervisor 1 1 Other Female Em-			
Other Female Nurses			
Male Attendants	73	2	75

$\begin{array}{c} \text{TABLE No. 3} \\ \text{PSYCHIATRIC AND INDUSTRIAL CLASSIFICATION OF PATIENTS} \end{array}$

FOICHIAIRIC AND INDUSTRIAL CHASSITION	0 =		
	212 00 1 0 10		
Patients Insane	407		407
Epileptic (not insane)	*****	4 ·····	1.77
Mental Deficiency (not insane)	17	*****	17
Alcoholics (not insane)	*****	*****	*****
Drug Addicts (not insane)		- 10 U	*****
Neurosyphilitics (not insane)		*****	*****
All Other Types		*****	*****
			-
Total Population	424		424
Industrial Workers	44		44
Garden Workers	73		73
Internal Workers	212		212
External Workers (Farm, etc.)	18		18
Doing no Work	77		77
Total Population	424		424

TABLE No. 4

NATIVITY OF PATIENTS IN RESIDENCE

	Males	Females	Total		Males	Females	Total
Canada	. 135		135	Japan	2		2
Australia	. 1		1	Norway	18		18
Austria	. 31		31	Poland	1		1
Belgium	. 3		3	Roumania	4		4
China			3	Russia	20		20
Denmark	. 5		5	Scotland	20		20
England	. 52		52	Sweden	10		10
Finland	. 3		3	Switzerland	3		3
France	. 2		2	United States	55		55
Germany	. 10		10	Wales	3		3
Holland	. 2		2	Other Countries	12		12
Hungary			1	Unascertained	13		13
Ireland	. 10		10				
Italy		••••	5	Total	424		424

TABLE No. 5

CITIZENSHIP OF PATIENTS IN RESIDENCE

Citizan hy Rinth		Females	_ 0 0004
Citizen by Birth Citizen Naturalization	$\frac{135}{17}$	*****	$\begin{array}{c} 135 \\ 17 \end{array}$
Aliens Unascertained	179		179
British Birth Out-Canada	86	•••••	86
Total	424		424

TABLE No. 6 DENTAL REPORT

Detients Brender 1	Males	F'emales	Total
Patients Examined	314		314
Patients Treated	186		186
Prophylactic Treatments	133	*****	133
Fillings Extractions	89		89
New Dentures	119		119
Dentures Repaired	4		4
	2		2

	PSYCHOSES
No. 7	PRINCIPAL
TABLE No.	AND
TA	ADMISSION
	AT
	AGE

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TABLE No. 8

DEGREE OF EDUCATION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

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Total	Œ,	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:	1	₩
Ţ	M.	:	12	2	16	-	:	:	ಶ	2	:	:	2	22	-	34	0.9	11	-	4	24	2	17	I	424
		:	:	:	:	:	:	:	:	:	:	:	:	:					:	:	:	:	:	1	
	Psychoses	1 Traumatic	2 Senile	.=	4 General Paralysis	5 With Cerebral Syphilis	6 With Huntington's Chorea	7 With Brain Tumour	8 With Other Brain Diseases	9 Alcoholic	0 Due to Drugs	1 With Pellagra	2 With Other Somatic Diseases	3 Manic Depressive	4 Involutional Melancholia	5 Dementia Praecox	6 Paranoia and Paranoid Conditions	7 Epileptic Psychoses	8 Psychoneuroses and Neuroses	.9 With Psychopathic Personality	0 With Mental Deficiency	11 Undiagnosed Psychoses	2 Without Psychoses		Total

TABLE No. 9

ENVIRONMENT OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

Unascertained	F. T.	:	:	:	:	:	:	:		:	:	:	:	:	:	22	2	1	:	::		:	eo	30
Unasc	M.	:	:	:	:	:	:	:		:	:	:	:	::	:	22	27	_	:	:	-	:	೧೦	3.0
	Ţ.	:	00	ಸ್	0	:	:	:		2	:	:	23	16	:	160	46	00			20	7	0	290
Kurai	E.	:	:	:	:	:::	::	:	:	:	:	:	:	::	:	:	:	:	:		::	:	:	:
	Z.	:	00	ಸರ	0	:	:			7	:	:	2	16	:::	160	46	00	-1		20	7	6	290
ver	ij.	:	4	2	7-	_	:	:	ಣ	က	:	:	:	9	_	52	12	7	:	ಣ	ග	:	ω	104
2,500 and over	뇬	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
2,5(M.	:	4	2	2		:	:	60	ಣ	:	:	::	9		52	12	7		က	ಣ	:	10	104
	T.	:	12	2	16	1	:	:	10	10	:	:	23	22	- 4	234	0.9	11	1	4	24	27	17	424
Total	F.	:	:	:	:	:	:	:	:	:	:	::	:	:	:	:	:	:	:	:	:	:	:	:
	M.	:	12	1	16		:	:	70	5	:	:	2	22	1	234	09	11		4	24	2	17	424
	Psychoses	raumatic	Senile	Cerebral Arteriosclerosis	General Paralysis	With Cerebral Syphilis	With Huntington's Chorea	With Brain Tumour	With Other Brain Diseases	Alcoholie	Due to Drugs	With Pellagra	With Other Somatic Diseases	Manic Depressive	Involutional Melancholia	Dementia Praecox	Paranoia and Paranoid Conditions	leptic Psychoses	Sychoneuroses and Neuroses	th Psychopathic Personality	With Mental Deficiency	Undiagnosed Psychoses	Without Psychoses	Total

TABLE No. 10
ECONOMIC CONDITION OF FIRST ADMISSIONS WITH PRINCIPAL PSYCHOSES

	er-	H	:	-	:	-	:	:	:	:							10	:	:	:	:	:	:	:		17
	Unascer- tained	댠	:	:	:	:	:	:	:										:	:	:	:	:	:	1	
	Þ	M.	:	-	:	_	:	:	:	:	:						13	:	:	:	:	:	:	:		17
1	ple r	E.	:	2	ಣ	2	:	:	:	-	_			-	-	:	rc	က	H	:	:	2	:	-1	1	9.3
Comfort-	ible, Ample for four Months	댠	:	:	:	:	:	:	:	:	:								:	:	:	:	:	:	-	
Col	able, for	M.	:	2	က	2	:	:	:	-	Н			-	-	:	rc	က		:	:	7	:		ĺ	23
	70	T.	:	ಣ	:	ಣ	:	:	:	_	2				14	:	50	80		_	2	14	:		1	30
	Living on Daily Earnings	됴	:	:	:	:	:	:	:	:	:						1	:	:	:	:	:	:	:		230
o i	on J Ear	M.	:	ണ	:	က	:	:	:		2				14	:	50	80	-	_	7	14	:	П	1	230
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2	Dependent	Fi	:	:	:	:	:	:		:	:					:	•	:	:	•	:		:	:	1	157
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	Tota	M.	:	12	·	16		:	:	ت	ص			2	22	1	34.	. 09	11 .		4	24		17 .		424
2																									!	4
ECONOMIC CONDITION OF THEST ADMISSIONS WITH THE ESTOTIONS	Psychoses		Traumatic	Senile	Cerebral Arteriosclerosis	General Paralysis	With Cerebral Syphilis	With Huntington's Chorea	With Brain Tumour	With Other Brain Diseases	Alcoholic	Due to Drugs	With Pellagra	With Other Somatic Diseases	Manic Depressive	Involutional Melancholia	Dementia Praecox	Paranoia and Paranoid Conditions	Epileptic Psychoses	Psychoneuroses and Neuroses	With Esychopathic Fersonality	With Mental Deficiency	Trailaghosed Esychoses	Without Esychoses		Total

TABLE No. 11

PSYCHOSES
PRINCIPAL
WITH
ADMISSIONS
FIRST
BY
ALCOHOL
OF
USE

	T	Total		Abst	Abstinent.	. •	Tem	Temperate.		Intem	pera	Intemperate. Unascertained	ascer	taine	d.
Psychoses	M.	Œ,	T.	M.	F.	T.	M.	F	Ξ.	M.	E.		M.	E4	T.
matic	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	12	:	12	67	:	7	9	:	9	2	:	2	2	:	2
oral Arteriosclerosis	2	:	<u>~</u>	:	:	:	4	:	4	-	:	7	2		2
ral Paralysis	16	:	16	::		:	14	:	13	_		ĭ	2		7
Cerebral Syphilis	_	:	_	-	::	-	:	:	:	:	:		:		:
Huntington's Chorea	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Brain Tumour	::	:	::	::	::	::	:	:	:	:	:	:	:	:	:
Other Brain Diseases	70	:	20	:	:	:	ಣ	:	ಣ	_	:	_	_	:	—
10lie	ro	:	70	:	:	:	:	:	:	70	:	20	:	:	:
to Drugs	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Pellagra	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Other Somatic Diseases	2	:	2		:	-	_	:	Ţ	:	:		::	:	:
c Depressive	22	:	22	2	::	2	12	:	12	က	:	್	ದ	:	ro
utional Melancholia	_	:	7	:	:	:	:	:	:	yeard	:	П	:	:	:
ntia Praecox	234	2	234	23	:	23	142		142	17	:	17	52	:	52
ioia and Paranoid Conditions	09	:	09	L-0	:	L-	35	:	35	13	:	13	2	:	20
ptic Psychoses	11	:	11	7	:	23	00	:	00		:	::		:	
honeuroses and Neuroses	-	:	_	:	::	::	П	:		:	:	:	::		:
Psychopathic Personality	4	:	4	_	:		27	:	2	:	:	:	-		-
Mental Deficiency	24	:	24	20	:	10	12	:	12	10	:	20	2	:	2
agnosed Psychoses	2	::	2	:	::		-	:			:	1	::	:	:
out Psychoses	17	:	17	9	:	9	7	:	-	:	:	:	4	:	4
		1	1	1	1	1	1	-	1	1	1	1	ļ	-	1
Total	424	4	424	20	:	50	247	2	247	20	:	50	22	:	22

TABLE No. 12

PSYCHOSES.
AI
PRINCIP
WITH
ADMISSIONS
FIRST
OF
CONDITION
MARITAL

ned.	Ŧ.	:	-	:	:	:	:	:	:	:	:	:	:	_	:	00	:	:	:	:	:	:	:	Į	10
ertai	Ē	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:
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Divorced	뇬	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:
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Separated	Ē	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1	:
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×	M.	:	4	-	:	:	:	:	:	:	:	:	:	7	:	_	<u>—</u>	:	:	:	, —∢	:	:	1	10
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Married	দ	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	Į	:
Ma	M.	:			12	_	:	:	7	4	:	:	П	11	:	31	18	4	:	:			7		9.0
	T.	:	ಬ	ರ	4	:	:	:	ಣ	_	:	:	_	00	- -(192	36	2		4	22	_	15	-	306
Single.	Ľ,	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	-	:
Si	M.	:	ŭ	ಬ	4	:	:	:	ಣ	_	:	:	_	00	_	192	36	2		4	22	-	15	1	306
	Ë	:	12	2	16	_	:	:	ಸರ	ಬ	:	:	27	22	, (234	09	11	,	4	24	2	17		424
Total	দ	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:		:
_ '	M.	:	12	_	16	-	:	:	70	ರ	:	:	7	22	-	234	09	11		4	24	2	17		424
	Psychoses	1 Tranmatic		3 Cerebral Arteriosclerosis		5 With Cerebral Syphilis	6 With Huntington's Chorea	7 With Brain Tumour	8 With Other Brain Diseases	9 Alcoholic	10 Due to Drugs	11 With Pellagra	12 With Other Somatic Diseases	13 Manic Depressive	14 Involutional Melancholia	15 Dementia Praecox		17 Epileptic Psychoses	18 Psychoneuroses and Neuroses	19 With Psychopathic Personality	With Mental Deficiency	21 Undiagnosed Psychoses	22 Without Psychoses		Total
			, 64		7	-40	Ĭ				1	-	-	-	-	-	-	-	1-4	-	2	10	2		

TABLE No. 13

DISCHARGE OF PATIENTS ACCORDING TO PRINCIPAL PSYCHOSES AND CONDITION ON DISCHARGE

			Total.		Re	Recovered.	ri	Ir	Improved.		Un	Unimproved.	d.
	Psychoses	M.	ഥ	H	M.	Ē	T.	M.	14	T.	M.	Ŀ,	E.
_	Traumatic	:	:	:	:	:	:	:	:	:	:	:	::
c)	Senile	:	:	:	:	:	:	:	:	:	:		
ಣ	Cerebral Arteriosclerosis		:	-	:	:	:	-	::	_	:		:
4	General Paralysis	:	:	:	:	::	:	:	:	:	:	:	
ಬ	With Cerebral Syphilis	:	:		:	:	:	:	:	:		:	:
9	With Huntington's Chorea	:	::	:	:		:	:	:::	:	:	:	:
[-	With Brain Tumour	:	:	:	:	:	:	:	:	:	:	:	
00	With Other Brain Diseases	:	:	:	:	:	:	:			:	:	
6	Alcoholic	:	:	:	:	:	:	:	:				
10	Due to Drugs	:	:	:	:	:	:	:	:				
11	With Pellagra	:	:	:									
12	With Other Somatic Diseases	:	:	:		:		:					
13	Manic Depressive	Н	:		:			:	:		-		-
14	Involutional Melancholia	-	:					-		-	1		
15	Dementia Praecox	4		4				-	;	-	*		*
16	Paranoia and Paranoid Conditions	:	:	:	:	:		:		:	:		:
17	Epileptic Psychoses	:	:	:	:	:	•						
18	Psychoneuroses and Neuroses	Н	:	Н				:			-		-
19	With Psychopathic Personality	_	:	_	:	:		:	:		-		,
20	With Mental Deficiency	:	:	:	:	:		:					
21	Undiagnosed Psychoses	:	:	:	:	:	:	:	:	:			
22	Without Psychoses		:	:	::	:	:	:	:	:	:	:	:
		1]	1		1	1	1	1	1	-	j	-
	7042	0		0				6		G	4		c

TABLE No. 14

*Transferred.

CAUSES OF DEATH CLASSIFIED ACCORDING TO PRINCIPAL PSYCHOSES-AGE AT DEATH-DURATION OF HOSPITAL LIFE

ation pital ife	Mths.	00	2	2	20	10	4	2	ļ	
Dur Hos	Yrs.	19	_	12	L-	70	10	:	1	
Age	Yrs.	73	19	78	34	99	39	7.1	j	
ental ncy	F. T.	:	1	:	:	:	:	:	1	-
7ith Menta Deficiency	F	:	:	:	:	:	:	:		
Wit	M.	:	~	:	:	:	:	:	1	-
d oid 18	F.	-	:	:	:	:	:	:	-	,
anoid rand litior	드	:	:	:	:	:	:	:	1	:
Para & Pa Cond	M.		:	:	:	:	:	:	1	,
ia x	T.	:	:	:	_	:	_	:	1	2
Dementia Praecox	E.	:	:		:	:	:	:	1	
Del	M.	:	:	:	-	:	-	:		2
- 1 ro	Ŧ.	:	:	:	:	:	: 7	-	1	_
rterio-	댠	:	:	:		:	:	:	l	::
Cer Art scle	M.	:	:	:	:	:	: +			-
	H.	:	. 7	-	: +	-	:	:		07
Senile	E.	:	:	:	:	:	:	:		:
So	M.	:	: "	-1	:-	7	:	:		2
	Ë:		٦,	-	٦.	٦,	٠,	-	1	2
Total	F.	:	:	:	:	:	:	T		
	Ä-		- F	٦,	- F	٠,	۲.	-	 -	2
	Chronic Valvular Disease of the Houst	Exhanstion due to Status Encloations	Chronic Myocarditis	Tuberculosis Peritonitis	Lobar Pheumonia	Pulmonary Tuberenlosis	Fracture and Phenmonia			Toral

424

TABLE No. 15

1112222 210. 20			
RELIGION OF PATIENTS IN RESIDENCE	E		
	M.	F.	T.
Baptists	14		14
Episcopalians	48		48
Jews	3		3
Presbyterians	47		47
Roman Catholics	106		106
United Church	31	****	$\frac{31}{137}$
Other Denominations	$\begin{array}{c} 137 \\ 38 \end{array}$	••••	38
Unascertained	90		
Total	424	***	424
TABLE No. 16 OCCUPATION OF PATIENTS IN RESIDE	NCE		
	М.	F.	Т.
Professional	2		2
Commercial	13		13
Agricultural	133		133
Mechanics, Outdoor	31		31
Mechanics, Sedentary	23	****	23
Domestic Service	3	****	3
Education	2	••••	20
Miners, Engineers, Rail	$\begin{smallmatrix}20\\143\end{smallmatrix}$	• • • •	143
Labourers	143	****	10
No Occupation	44	••••	44
Unascertained	3.7		- 1

Total.....

Provincial Training School, Red Deer

(D. L. McCullough, M.D., Acting Medical Superintendent)

STATISTICAL SUMMARY.

Reference to Table 1 shows that we began and ended the year with 190 patients in residence. There were on our books on January 1st, 1932, 102 males and 91 females. Our nominal capacity throughout the year was 200 beds, but for various reasons we were temporarily below capacity, both at the beginning and end of the year. During the year there were 25 admissions, exactly balanced by 7 deaths, 7 transfers, and 11 cases discharged on parole. This latter number is the largest in the history of the training school, and shows an increasing tendency towards a freer movement of population which has been present for the past three years.

There were 51 new applications for admission, 22 males and 29 females. After deleting from the lists the names of those since admitted, who have left the Province, died, etc., there are now 219 cases awaiting admission as against 182 at the end of 1931.

Twenty suspects were reported, 8 males and 12 females, bringing the total number, after correcting the table as above, to 544, as against 533 at the end of 1931.

The number of defectives in institutions on December 31st, 1932, was 263—190 in Red Deer, 56 in Ponoka, and 17 in Oliver. If to these numbers are added the 61 discharged from Red Deer from 1923 to 1932 inclusive, the 219 awaiting admission and the 544 suspects reported, the resultant figures—1,093—give some idea of the extent of the problem of the feeble-minded in the Province of Alberta.

HEALTH OF PATIENTS.

Throughout the year the health of the patients was, on the whole, good. In March and April there were 39 cases of chickenpox, one of severe type. One case of typhoid occurred, again, as in the previous year, in a previously immunized patient. The source of infection could not be determined. Our milk is pasteurized, and careful search revealed no carriers amongst patients or staff who had previously had typhoid. All patients and staff, a total of 250, were re-inoculated, and in future a yearly reinoculation of the entire institution is planned. A severe outbreak of influenza occurred in November, and bronchopneumonia caused two deaths. At the height of the epidemic 48 patients and 9 members of the staff were confined to bed in addition to the usual cripples and invalids, and it was only through the splendid efforts of both patients and staff, who escaped or were lightly attacked, that the sick were looked after and the essential services of the Training School maintained without calling in outside help. In December and early in January of the present year there were 4 cases of diphtheria, with two deaths. Dr. Sommerville, taking Dr. Little's place at the full

time health unit, Red Deer, rendered very helpful service in "Schicking" all patients and staff, numbering 250 in all. All those found susceptible were immunized with antitoxin and toxoid. Two carriers were found and isolated till free from infection. The immunization of all patients against diphtheria and typhoid commences as a routine procedure the day they are admitted. There were a number of cases of acute middle ear infection, especially during the influenza epidemic, and two mastoid operations were necessary despite early paracentesis of the drum.

There were seven deaths during the year. One due to fracture of the skull from an accidental fall, one due to cellulitis of the neck following perichonditis and necrosis of the thyroid cartilage, one due to status epilepticus, two to influenzal bronchopneumonia, one to diphtheria, and one to acute intestinal obstruction.

Extensive use was made of the ultra violet machine for two cases of cervical adenitis, two pulmonary tuberculosis suspects, and some skin and other conditions. Most of the patients felt better in themselves for the treatment, but tangible results were few.

Full courses of antisyphilitic treatment were given to five

patients with positive Wassermans.

Dr. Heacock, departmental dentist, made a complete survey of all patients in March and again in October, completing 100 fillings, 170 extractions with 14 general anaesthetics, and one complete extraction under general anaesthetic, and 176 prophylactic treatments. This work is very valuable, and greatly appreciated by the patients themselves. It results not only in greater comfort and better nutrition of the patients, but prevents a great deal of chronic and other ill-health, with consequent saving in medical and nursing effort and expenditure. All patients capable of caring for them are provided with tooth brushes and encouraged to use them daily.

Walks, outdoor games, skating, playground and other activities were again encouraged throughout the year, and the 90 children who attended the Sylvan Lake camp were greatly benefited, and came back sunburned and healthy.

PATIENTS' ACTIVITIES.

The policy which was adopted towards the end of 1931 of having female patients work in the various departments in rotation was further developed and extended. Each department has a definitely assigned number of girls. Changes are made monthly. Certain positions carry seniority, and are looked upon as promotion, such as waitress in staff dining room, nurse's assistant and domestic help. The staff in the various departments have supported the scheme very loyally, though when first introduced it meant for them more work and greater effort in the supervision and instruction of patients. The patients themselves, especially the higher grades, appreciate the increased opportunity for training, the greater variety in experience, the increased responsibility, and the influence carried by the senior posts. As a corollary to these changes, a monthly report for each department covering each patient's work, ability, temperament, etc., is being instituted, and should result in further progress towards the goal of the Training School—training for return to extra-institutional life. The organization of the working boys along similar lines is a much more difficult problem, and it is very doubtful if anything worth while can be done with the limited number of attendants and the very nominal supervision possible at present. Results so far have been slight. At the end of the year 68 full time workers were employed on the various floors and in departments—31 males and 37 females—being 35% of the patient population. Considering the number of small children, school children, low grades, cripples, epileptics and other helpless types in the institution, this is a very creditable showing.

The Girl Guides met regularly during the year, under Miss Dewis as captain and Miss Rook as lieutenant. This movement has been a leavening influence entirely for good amongst the girls. Despite their limited abilities and imperfections of temperament and personality, they have been very enthusiastic. Membership increased from 8 at the beginning of the year to 18 at the end of the year, although there was a loss of 4 members discharged on parole. Six passed their second class tests, 5 received service badges, and a number at the end of the year were well on their way to winning proficiency badges in several subjects. A group of 14 spent a week at camp at Sylvan Lake in August with their leaders. Their work was not only approved of, but very favourably commented upon by the visiting member of the provincial executive.

In September Mr. Ward and Miss Macdougall got together two groups of boys for scout and cub work, and the meetings held regularly each week are greatly enjoyed by the boys. At the end of the year 12 scouts and 22 cubs were enrolled, and have made good progress.

The matron and graduate nurse (Miss Holmes and Miss Carnochan) have repeated with larger groups (20 senior and 15 junior girls) the practical instruction given the previous year in elementary nursing and first aid, and it is surprising how much some of the girls have learned. It has made much of their daily routine work more interesting, improved their efficiency, given them some idea of the objects of cleanliness in their persons and surroundings, made them more considerate for the sick and ailing, and capable of looking after them and making them comfortable.

Except during July and August. Sunday school classes were held regularly throughout the year for both boys and girls, and are greatly looked forward to by all those capable of attending. There are five classes, all taken by members of the staff, and the average attendance is 65.

Great credit reflects on all those who have undertaken these personality and character building activities: guides, scouts, cubs, Sunday school, elementary nursing and first aid. I greatly appreciate the generous contribution which they have made voluntarily to the ideals of the Training School.

All year the school room and sense training room has been crowded to capacity, and excellent work has been done in both departments.

The senior and junior occupational groups under the teacher, Miss Walt, and the sense trainer, Miss Brown, and the basketry and carpentry class for the school boys under Miss Macdougall, have done good work increasing the industry, application and skill

of the workers besides affording them an hour of interesting relaxation and profitable companionship daily.

The usual display of articles was made at the Edmonton Exhibition and the Red Deer Fair. Sales were well up to average despite the depression.

Sports were held on May 24th and July 1st. These events are a great source of delight to the children, and are eagerly anticipated and diligently trained for. During July and August 90 boys and girls in groups of 12 to 14 at a time, attended camp at Sylvan Lake, on a site loaned by the Red Deer Rotary Club. As we have no camp site of our own, we may have to forego camp next year. If so, it will be a great disappointment to the children, besides depriving them of a much-needed physical change and mental stimulus. During the winter a number of patients' dances were held, with a masquerade at Hallowe'en and a concert at Christmas, put on by the school children trained and directed by Miss Brown. The Christmas tree was, as usual, a great success, though the number and quality of the presents sent by parents was much below that of previous years. A number of presents, chiefly toys, from the Provincial Mental Hospital at Ponoka, the Red Deer Rotary Club, Eaton's, and from some private individuals helped to make good the deficiency, and no child was without some little gift, however small.

Eighteen children were allowed home on visits during the summer months, and all, without exception, behaved well and gave no trouble. These holidays are encouraged as being good for the children, both physically and mentally; keeping the parents interested in them and paving the way for ultimate discharge. Many parents visited their children at the school during the year.

Institutional Progress.

No new buildings were erected or extensions made, but much was done towards maintaining and improving the efficiency of the present buildings.

The water softener, which went into use for laundry and boiler room purposes on January 1st, has operated efficiently and given good service at a very moderate cost. Following a serious interruption in the water supply early in the year, changes were made in the supply line which enables us, if anything goes wrong with our reservoir, to draw direct from the city mains, or if anything goes wrong with the latter, to run for 24 hours or more on our reservoir. The advantage of this in case of fire is obvious. These changes involved a great deal of digging, tunnelling and other work in which a number of patients were profitably employed.

During the severe sleet storm in April the school was in total darkness for many hours; no bells could be rung, and it would have been impossible to sound the fire alarms. As a result of this experience, steps were taken to install a steam-driven electric generator, which has been in operation since Novembr. This makes us independent of outside interruptions, but as we are still connected with the city, we can draw on their line in case a short occurs in our own circuit. The installation of this generator necessitated many changes in the boiler room.

Many other smaller changes were made such as the replacement of the old hot water heater in the boiler room by a new and larger one; the alteration of the offices to provide a filing room; the rearrangement and alteration of certain rooms in the main building to give more light, accommodation for more beds and convenience to bathrooms for isolation, etc. The construction of landing platforms at the fire escape outlets made exit easier and safer for crippled and

helpless patients.

The new section for twelve high grade girls opened at the end of 1931, and made available by transferring staff to what was formerly Dr. McAllister's suite, was completely filled by the admission of nine new patients in the early days of January. This section has been a valuable acquisition. It gives us a larger number of workers for the growing needs of the various floors and departments, consequent on the steadily increasing number of low grades. It provides accommodation for a type of case capable of training and returning to the community.

Approximately 11 acres of land were purchased from the city. This, with the 24 acres we already had and about 15 acres rented for grazing, gives us 50 acres. Four acres of the newly rented ground was broken and put into green feed, and seven acres of the newly purchased land broken. This will give a very welcome addition to the kitchen garden, which has been continuously cropped without rest or intermission since 1918, and is barely adequate for

our increased needs.

DEPARTMENTAL ACTIVITIES.

The work of all departments is steadily increasing with the increasing number of patients. Loyalty and co-operation have marked the activities of all sections, especially in the training of patients.

In the laundry 286,660 articles were laundered, as against

255,489 in the previous year.

In the sewing room 2.758 articles were made and 38,371 repaired, as against 2,988 and 30,848 made and repaired in 1931. An electric darning machine run entirely by high grade girls has been a valuable addition, and has eliminated a great deal of tedious hand work.

In addition to pork, chicken and eggs valued at \$380, the farm produced the best crop of vegetables in the history of the institution with a nominal book value of \$2,103; 15,000 caragana seedlings were raised at the request of the Department, and are now ready for distribution to farmers when needed. The grounds were well cared for and, as usual, attracted many visitors during the summer months. A display of cut flowers and plants was exhibited at the Red Deer Horticultural Show in August.

STAFF ACTIVITIES.

The health of the staff, as a whole, has been excellent. No serious illnesses occurred and little time was lost.

Eleven changes occurred in the total public health staff of 42. Seven resigned (four to get married) and four were dismissed.

In the early months of the year a series of lectures on mental deficiency and some physical ailments were given by the medical

superintendent. In September a systematic course of instruction was commenced, using as text book the "Manual for Mental Deficiency Nurses," published by the Royal Medico-Psychological Association; lectures in the various subjects being given by the medical superintendent, and lectures, demonstrations and ward instruction in practical nursing by the matron and graduate nurse. Already the instruction given has resulted in greater interest in the children, more efficiency in the routine work, and a fuller appreciation of the standards, aims and ideals of the Training School.

The local branch of the Civil Service Association of Alberta, which has steadily increased in membership, held a number of very enjoyable socials during the winter and spring months and a number of picnics during the summer, which contributed to the happiness and *esprit de corps* of the staff. In matters affecting the institution the association has been both loyal and co-operative.

EUGENICS.

During the year 14 cases—8 males and 6 females—were presented to and approved by the Eugenics Board at the Training School in March, June and September. By sending all cases to the Red Deer Municipal Hospital for operation, transportation costs have been eliminated, the stay in hospital shortened, and the patients can enjoy having visitors from the Training School.

By the end of the year 45 cases—17 males and 28 females—had been presented to and approved of by the board, and 43—14 males and 28 females—sterilized. Two cases await the consent of parents. One was transferred to Ponoka before being sterilized. Fifteen of these cases have been discharged, and without exception favourable reports have been received of all. Two are now happily married and have good homes. In addition to the above, 13 female cases, already sterilized, have been admitted at various times to the Training School. Five of these have been discharged. Totalling both groups, there were 35 sterilized cases in residence at the end of the year, equal to 18.4% of our total population.

SOCIAL WORKER.

Mr. Kibblewhite, in Calgary, and Miss Starkie, in Edmonton, made follow-up reports on many of our discharged cases, including all those sterilized before discharge. They also made a number of social reports, and in other ways (meeting parents en route, obtaining special interviews with parents, etc.), helped us materially. In former years most of our applications came from the schools and through the public health nurses. An increasing number now come through the mental hygiene clinics, and I find the information there obtained a great help in determining for which section of the school the applicant is best suited.

Conclusion.

Turning to the general situation, the great majority of our applications for admission are for low grade, helpless and crippled children—the type of case that once admitted is generally here for life. With a low discharge rate and a relatively small death rate,

admissions are necessarily few and the applications accumulate. The only satisfactory solution is the provision of more accommodation for this type of patient, particularly of the infirmary type.

The situation is otherwise with regard to the high grade cases. There are relatively few large high grade girls or boys on our waiting lists. Yet, this is the type most suitable for industrial training and return to extra-institutional life, and the majority of our discharges are from this group. With relatively few applications and an active discharge list, it is becoming increasingly difficult to maintain this group at strength, and should we fail to do so increase in staff would be necessary.

Within the building itself we still have the school children, many of whom are high grade, sharing the main part of the second and third floors with the low and very low grades. We keep them separate as far as possible; they have meals apart, and when possible we move the older children to the cottage or the sections where the large girls are, but complete segregation of the two groups would be better for both.

TABLE No. :

MOVEMENT	OF	FEEBLE-MINDED	POPULATION
----------	----	---------------	------------

Defectives on books of institution at January 1st, 1932: In the	M.	F.	т.
Provincial Training School	102	88	190
Total	102	88	190
Admissions:			
M. F. T. 1. First admission, voluntary 6 14 20 2. Readmissions 2 2 3. Court commitments 1 2 3			
Total number admitted during year	7	18	25
Total number of defectives on the books during the year	109	106	215
Discharges during 1932	2 3 5	9 4 2	11 7 7
Total number of outgoing patients during 1932	10	15	25
Defectives on books of institution at Dec. 31st, 1932	99	91	190

TABLE No. 2

RESPONSIBILITY FOR MAINTENANCE OF PATIENTS IN RESIDENCE AT DECEMBER 31, 1932

Wards of the Province of Alberta Wards of the Municipal Districts of Alberta Wards of the Department of Municipal Affairs of Alberta Private Cases in residence during 1932 Wards of the Department of Pensions and Health, Ottawa Wards of the Dominion Government Responsibility not established	In Residence 31 131 18 4 2 1	Percentage 16.31% 68.95% 9.48% 2.10% 1.05% .53% 1.58%
Total	190	

TABLE No. 3

MENTAL STATUS OF FIRST ADMISSIONS AND READMISSIONS

	First	Admis	sions	Re-	admiss	ions		Total	
Mental Status	M.	F.	T.	M.	F.	T.	M.	F.	T.
Imbecile	2	3	5	••••	2	2	2	****	
Moron	4	14	18	****			4	14	18
Total	6	17	23	• • • • •	2	2		19	25

NATIVITY OF ADMISSIONS AND OF PARENTS OF ADMISSIONS

Nativity	Males	Patients Females			nts of N Patients Mother		Parents of Female Patients Fathers Mothers Tota				
				1 4011615		~ ~ ~ ~ ~ ~ ~					
Alberta	5	9	14		****	****			••••		
Other Provinces	2	3	5	2	2	4	3	3	6		
England		1	1	2	2	2	2	1	3		
0 7 7		ī	1		1	1	3	1	4		
	• • • • •	1	1	****	1	0	0	1	ı î		
United States		2	2	1	1	2		1	1		
Germany		1	1		1	1	2	2	4		
Norway							1	1	2		
Sweden							1	1	2		
Russia				1		1			****		
Roumania					1	1			****		
Unascertained		1	1	1	1	2	6	8	14		
		Married World									
Totals	7	18	25	7	7	14	18	18	36		

TABLE No. 5

CITIZENSHIP OF ADMISSIONS			
	Male	Female	Total
Citizens by birth	5	11	16
Aliens	1		1
Citizenship unascertained	1	7	8
Total	7	18	25

TABLE No. 6(a)

AGE OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

			Idiot		In	abeci	le	N	Ioroi	1	Total		
	Age Group	M.	F.	T.	M.	\mathbf{F}_{\cdot}	T.	Μ.	F.	T.	M.	F.	Т.
1- 4								1		1	1	****	1
5- 9					1		1				1	• • • •	1
10 - 14					1		1	2	1	3	3	1	4
15-19						2	2	2	8	10	2	10	12
20-24						2	2					2	2
25-29					****				2	2		2	2
30-34	***************************************					1	1		2	2		3	3
30-34					,							_	
	77 . 1			_	-0		7	5	19	18	7	1.0	2.5
	Totals				2	5	- (9	1.9	10	15	10	20

TABLE No. 6(b)

AGE OF TOTAL POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

	Idiot			In	ibeci	le	M	[oron		Total		
Age Group		F.	T.	M.	F.	T.	M.	F.	T.	Μ.	F.	T.
1- 4 years		1	1				1		1	1	1	2
5- 9 years				2		2		4	4	2	4	6
10-14 years	8	9	17	11	5	16	7	4	11	26	18	44
15-19 years	14	12	26	9	8	17	10	7	17	33	27	60
20-24 years	9	7	16	4	10	14	3	4	7	16	21	37
25-29 years	4	3	7	9	4	13		2	2	13	9	22
30-34 years	3	3	6	1	2	3		4	4	4	9	13
35-39 years	1		1	1	1	2	1		1	3	1	4
40 years upward					1	1	1		1	1	1	2
10 , 00012 0						_						
Totals	39	35	74	37	31	68	23	25	48	99	91	190

TABLE No. 7

ENVIRONMENT OF ADMISSIONS

	Idiot		Imbecile			N	Ioroi	n	Total			
Environment	M.	F.	T.	M.	F.	T.	Μ.	F.	T.	M.	F.	T.
UrbanRural				1	1	2	1	5	6	2	6	8
				1	4	5	4	8	12	5	12	17
	-											
Totals				2	5	7	5	13	18	7	18	25

TABLE No. 8

RELIGION OF ADMISSIONS

		Idiot		In	nbeci	le	Moron			Total		
Religion	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
United Church				2	1	3	2	7	9	4	8	12
Anglican					A		1	2	3	1		3
Roman Catholic					1	1		1	1		2	2
Baptist								1	1			
Lutheran					2	2	2	1	3	2	3	5
Nazarene					1	1			• • • •		l.	1
Unascertained				****			****	1	1	****	1	1

ECONOMIC CONDITION OF FAMILIES OF ADMISSIONS CLASSIFIED WITH REFERENCE TO MENTAL STATUS

	Idiot			In	Imbecile			Ioroi	n	Total		
Economic Condition	M.	F.	T.	M.		T.	M.	F.	Ţ.	M.	F.	Т.
Dependent Marginal		• • • • •	• • • •		2	2 4	 5	6	5	6	7 9	15
Comfortable				1	9	1			1.1	1		1
Unascertained								2	2		2	2
			_			_						_
Totals				2	5	7	5	13	18	7	18	25

TABLE No. 10(a)

DISCHARGES CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

				Idiot			Imbecile			Ioroi	า	Total				
	Age Group		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.		
		***************************************		1	1								1	1		
15-19		***************************************					1	1		4	4		5	5		
20-24	years	***************************************							1	1	2	1	1	2		
25-29	years	***************************************				1		1		1	1	1	1	2		
30-34	years	***************************************					1	1					1	1		
				_		-	_			_			-			
	To	tals		1	1	1	2	3	1	6	7	2.	9	11		

TABLE No. 10(b)

TRANSFERS CLASSIFIED WITH REFERENCE TO MENTAL STATUS AND CHRONOLOGICAL AGE

				Idiot		In	beci	ile	IM.	Ioroi	1	7	Γotal	
		Group	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
10-14		***************************************												
15-19 20-24		***************************************				1		1				1		1
25-29	vears	***************************************	• • • • •	****	. ****		1	1					1	1
30-34	years		****			1	2	2	• • • • •	****		1	2	2
35-39	years	***************************************							1		1	1	• • • •	1
40 - 44	years			1	1								1	1
	m - 4 -	1	_	-			-						_	
	Tota	lls		1	1	2	3	5	1		1	3	4	7

TABLE No. 11

DEATHS

		Idiot		In	nbeci	ile	Age		n of Time
Causes of Death	M.	F.	T.	M.	F.	T	Years	Years	Months
Influenza Bronchopneumonia	1		1				22	5	11
Status Epilepticus	****	1	1				13	7	9
Dialthania		1	1				12	3	7
Diphtheria	1		1				7	1	1
Fractured Skull		****	****	1		1	25	13	3
Cellulitis of Neck	1		1				21	13	3
Centultis of Neck	1		1				26	13	11
									in the same
Totals	4	2	6	1		1			••••

TABLE No. 12

SOME OF THE TYPES IN RESIDENCE

		Idiot		In	nbeci	ile	I	Ioro	n		Per-
Classification Infirmary Type M.D. and Epileptic M.D. and Psychopathic M.D. and Prepsychotic	18	F. 12 11	31	M. 7	F. 4 1	T. 11 4 2	M. 2 3	F. 	T. 6	Total 42 39 5	Per- centage 22.10% 2050% 2.63%
M.D. and Psychotic			****	••••				2	2	5 2	$\frac{2.63\%}{1.05\%}$

APPLICANTS AWAITING ADMISSION			
		Female	
Applications dated prior to 1923	13 7	13 3	$\frac{26}{10}$
Applications dated 1923	10	3 7	17
Applications dated 1925	10	4	4
Applications dated 1926	10	10	20
Applications dated 1927	4	6	10
Applications dated 1928	7	4	11
Applications dated 1929	14	9	23
Applications dated 1930	19	13	32
Applications dated 1931	7	15	22
Applications dated 1932	17	20	37
	100	104	212
Total number of cases not admitted	108	3	7
Present whereabouts unknown			
Total number of cases awaiting admission	112	107	219
10th Runot of ones and many admission			
TABLE No. 14			
REPORTED SUSPECTS	30.3	77 7	FFT 4 7
0 / 12 1 1000	Male		e Total
Suspects reported prior to 1923	$\frac{107}{28}$	$\frac{56}{33}$	$\begin{array}{c} 163 \\ 61 \end{array}$
Suspects reported during 1923	20	12	32
Suspects reported during 1924	17	14	31
Suspects reported during 1926	30	21	51
Suspects reported during 1927	12	17	29
Suspects reported during 1928	18	18	36
Suspects reported during 1929	29	27	56
Suspects reported during 1930	23	21	44
Suspects reported during 1931	17	4	21
Suspects reported during 1932	8	12	20
			~
Total	309	235	544
TABLE No. 15			
SUMMARY OF REPORTED DEFECTIVES			
SOMMING OF INDICATION	Male	Femal	e Total
In residence at Red Deer	99	91	190
Discharged, Paroled, etc. (1923-32)	32	29	61
Applicants (Table 13)	112	107	219
Suspects (Table 14)	309	235	544
Sex unascertained	****		6
In residence at Oliver	17		17
In residence at Ponoka	28	28	56
Totals	597	490	1,093
1 0 tals	001	400	1,000
MADIE No. 16			
TABLE No. 16			
EUGENICS SUMMARY			
		Fema	
Number of cases presented to Board	17	28	45
Number of cases presented to Board	17 17	28 28	45 45
Number of cases presented to Board	17 17 14	28 28 28	45 45 42
Number of cases presented to Board	17 17 14	28 28 28 13	45 45 42 13
Number of cases presented to Board	17 17 14	28 28 28	45 45 42
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on. Cases sterilized prior to admission. Sterilized cases, paroled, etc.	17 17 14	28 28 28 13	45 45 42 13
Number of cases presented to Board	17 17 14 5	28 28 28 13 15	45 45 42 13 20
Number of cases presented to Board Number of cases approved by Board Number of cases operated on Cases sterilized prior to admission Sterilized cases, paroled, etc. Sterilized cases in residence—Totals	17 17 14 5	28 28 28 13 15	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17	17 17 14 5	28 28 28 13 15	45 45 42 13 20
Number of cases presented to Board Number of cases approved by Board Number of cases operated on Cases sterilized prior to admission Sterilized cases, paroled, etc. Sterilized cases in residence—Totals	17 17 14 5 -9	28 28 28 13 15 —————————————————————————————————	45 45 42 13 20 — 35
Number of cases presented to Board	17 17 14 5 -9	28 28 28 13 15 26	45 45 42 13 20 ———————————————————————————————————
Number of cases presented to Board Number of cases approved by Board Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals TABLE No. 17 STAFF Medical Superintendents	17 17 14 5 -9 Male	28 28 28 13 15 26	45 45 42 13 20 ———————————————————————————————————
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars	17 17 14 5 -9 Male	28 28 28 13 15 26	45 45 42 13 20 35
Number of cases presented to Board	17 17 14 5 -9 Male	28 28 28 13 15 26	45 45 42 13 20 ———————————————————————————————————
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars	17 17 14 5 -9 Male	28 28 28 13 15 — 26	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses	17 17 14 5 - 9 Male	28 28 28 13 15 	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses	17 17 14 5 -9 Male	28 28 28 13 15 —————————————————————————————————	45 45 42 13 20 35
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons	17 17 14 5 -9 Male 1 1 1 1 	28 28 28 13 15 	45 45 42 13 20 -35 le Total 1 1 1 1 1 1 2
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on	17 17 17 14 5 -9 Male 1 1 1 4	28 28 28 13 15 26 Fema 1 14 14 1 2 1	45 45 42 13 20 ———————————————————————————————————
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on	17 17 17 14 5 9 Male 1 1 1 4 1	28 28 28 13 15 26 Fema: 1 14 1 2 1	45 45 42 13 20 ———————————————————————————————————
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers	17 17 17 14 5 -9 Male 1 1 1 4 1	28 28 28 13 15 26 Fema: 1 14 1 2 1 	45 45 42 13 20 -35 le Total 1 1 1 1 1 1 4 2 1
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks	17 17 17 14 5 - 9 Male 1 1 1 4 1 1	28 28 28 13 15 26 Fema 11 14 12 11 11	45 45 42 13 20 —35 85 le Total 1 1 1 1 1 2 1 4 2 1
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff	17 17 17 14 5 -9 Male 1 1 1 4 1	28 28 28 13 15 26 Fema: 1 14 1 2 1 1 1 1	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff	17 17 17 14 5 -9 Male 1 1 1 1	28 28 28 13 15 26 Fema 1 14 1 1 2 1 1	45 45 42 13 20 -35 le Total 1 1 1 1 1 1 4 2 1 4 2 1 3 2 2 3 5
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids	17 17 17 14 5 -9 Male 1 1 1 4 1	28 28 28 13 15 26 Fema: 1 14 1 2 1 1 1 1	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on	17 17 17 14	28 28 28 13 15 26 Fema 11 14 12 21 1 3 23	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids	17 17 17 17 19 Male 1 1 1 1 4 1 1	28 28 28 13 15 26 Fema 1 1 1 2 1 1 3 2 3 3	45 45 42 13 20
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids Laundry Room Staff Sewing Room Staff Sewing Room Staff Gardeners Farmers	17 17 17 17 19 Male 1 1 1 1 4 1 1 1 1 1 1 1	28 28 28 13 15 26 Fema	45 45 42 13 20 35 le Total 1 1 1 1 1 2 1 1 4 2 1 3 3 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids Laundry Room Staff Sewing Room Staff Gardeners Farmers Boiler Room Staff	17 17 17 14	28 28 28 13 15 26 Fema 11 14 11 3 2 3 3 3 2	45 45 42 13 20 35 85 le Total 1 1 1 1 1 1 2 1 1 4 2 1 3 2 1 1 3 2 1 1 1 1 1 1 1 1 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 3 3 2 3 3 2 3 3 3 3
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids Laundry Room Staff Sewing Room Staff Sewing Room Staff Gardeners Farmers	17 17 17 17 19 Male 1 1 1 1 4 1 1 1 1 1 1 1	28 28 28 13 15 26 Fema 11 14 12 21 1 3 2 2 3 3 3 2	45 45 42 13 20 35 le Total 1 1 1 1 1 2 1 1 4 2 1 3 3 2 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids Laundry Room Staff Sewing Room Staff Gardeners Farmers Boiler Room Staff Maintenance Staff Maintenance Staff	17 17 17 17 19 Male 1 1 1 1 4 1 1 1 1 6 3 3	28 28 28 13 15 26 Fema 11 14 12 11 2 3 2 3 3 2 2 	45 45 42 13 20 35 85 le Total 1 1 1 1 1 2 1 4 2 1 3 3 2 2 1 1 1 6 3 3 3 3
Number of cases presented to Board. Number of cases approved by Board. Number of cases operated on Cases sterilized prior to admission. Sterilized cases, paroled, etc. Sterilized cases in residence—Totals. TABLE No. 17 STAFF Medical Superintendents Bursars Dentists, part time Graduate Nurses Other Nurses Teachers of Grade Subjects Teachers of Special Subjects Matrons Attendants Social Workers, voluntary Stenographers Clerks Kitchen Staff Dining Room Staff Maids Laundry Room Staff Sewing Room Staff Gardeners Farmers Boiler Room Staff	17 17 17 14	28 28 28 13 15 26 Femal	45 45 42 13 20 35 85 le Total 1 1 1 1 1 1 2 1 1 4 2 1 3 2 1 1 3 2 1 1 1 1 1 1 1 1 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 3 3 2 3 3 2 3 3 3 3

SEWING ROOM

SUMMARY OF ARTICLES MADE AND REPAIRED IN 1932

Quantity	3	A 4 : - 1 -
WURNIIIV	ana	Article

Quantity and Article.

- 14 Pillows.

- 14 Pillows.
 310 Pillow slips.
 28 Press and ironer covers.
 5 Rompers, pairs.
 282 Sheets, cotton.
 10 Sheets, rubber.
 8 Shrouds.
 79 Strong suits and sleeves.
 97 Towels, hand and bath.
 259 Towels, dish (sacking).
 46 Tie tapes.
 11 Uniforms, waitress.
 51 Uniform caps, nurses.
 399 Miscellaneous articles.
- 2,758 Total number of articles manufactured.
 38,371 Total number of article repaired.
- Quantity and Article
 Qua

 67 Aprons, gingham.
 14 Pillows.

 64 Aprons, burlap.
 310 Pillows.

 18 Bandages, special.
 28 Press a

 35 Bags, laundry.
 5 Romper

 20 Bibs.
 282 Sheets,

 48 Blouses
 10 Sheets,

 59 Bureau scarves and table centres.
 8 Shrouds

 69 Combinations, pairs.
 79 Strong

 23 Curtains, pairs.
 259 Towels,

 25 Cloths, table.
 46 Tie tap

 152 Dresses.
 11 Uniform

 216 Diapers.
 51 Uniform

 159 Garters, pairs.
 399 Miscella

 4 Gowns, hospital.
 2,758 Total r

 41 Jackets.
 2,758 Total r

 7 Mattresses.
 38,371 Total n

 58 Pads, scrubbing.
 1931— 2,988 Total number of articles manufactured.

 30,848 Total number of articles repaired.

Central Alberta Sanatorium

(A. H. BAKER, M.D., Superintendent)

Last year's report pointed out that the maximum number of Sanatorium treatment days had been reached with the present accommodation, and this opinion is substantiated by the fact that the average per diem patient strength in 1932 was the same as in 1931, while the number treated was five fewer. Sanatorium beds in Alberta are essentially the same as thirteen years ago, since no increase has been provided.

The beds available for tuberculosis in Alberta in 1931, according to the Department's report, numbered 301; 210 of these are at the Sanatorium and 91 distributed among 22 of the general hospitals. Outside of the cities of Edmonton and Calgary, the beds for tuberculosis number 48. These hospitals treated 390 cases of pulmonary tuberculosis and 271 non-pulmonary cases in 1932, a decrease of 25 and 45 respectively as compared with 1931; 402 were treated at the Sanatorium, of which 367 were tuberculous. All told, 1,028 were treated. While some of these have been included in both hospital and Sanatorium, it is estimated that approximately 1,000 individuals were treated. This is but a part of those sick.

New admissions to the Sanatorium numbered 196, of whom 161 were considered tuberculous. While the patients admitted to Sanatorium and hospital are fewer this year, the deaths reported have increased in the Province, as follows:

	Indian	White
1931	 166	219
1932	 163	241

The total deaths were 404, which raises the rate per hundred thousand to 55.1 in 1932, as compared with 51.9 in 1931. There has been an increase among the whites of approximately 10%. Of the whites about one-third died elsewhere than in a hospital. This is a significant fact in relation to the spread of this disease. Approximately 50% of those diagnosed as tuberculous had been in intimate house contact with another case of tuberculosis. It is to be noted that the Indians, who constitute less than 2% of our population, supply over 40% of the deaths from tuberculosis. While the Indians are a Federal responsibility, they are undoubtedly a factor in spreading tuberculosis in the Province, and should not be ignored in our anti-tuberculosis work.

The demand for Sanatorium beds resulted in an average wait of 41 days. The longest delay was 92 days. Nine applicants died before a bed was available.

It has been apparent and recognized that Alberta needs more treatment beds for tuberculosis if urgent cases are to receive treatment, looking to a cure or aiming to protect associates. The attempt to cope with this situation involves the provision of more beds or a reduction in the period of treatment now being given.

If the hopelessly sick are sent home it means an increase in the number of infectious cases spreading disease throughout the Province, which number is already too great; if those likely to recover are returned home too soon, it is to be expected that more relapses will result, which tends to nullify any advantage in Sanatorium treatment. Obviously provision for more Sanatorium beds is required.

The situation arising from this lack of Sanatorium accommodation could be appreciably improved by arrangement with certain general hospitals having suitable beds to make use of them. The newly-discovered case requires immediate treatment rather than a delay of months, for the earlier the treatment the greater the probability of cure, and the shorter the period of institutional treatment required. This is why we urge provision for immediate The hospital beds, as pointed out previously, would allow those very sick to receive suitable care near home rather than in the Sanatorium, and without danger to relatives. The institutional care of tuberculosis requires the care of the hopelessly sick to give comfort and at the same time to check the spread of infection, but it also is definitely interested in the treatment and curing of those sick and their return to remunerative employment. This last can only be satisfactorily accomplished if people are under treatment before the disease has spread extensively.

There are in the Province certain districts where the incidence of tuberculosis greatly exceeds that in more favourable parts. It is in these that more aggressive work must be undertaken in order to attempt to reduce the loss. Unfortunately when cases of tuberculosis are discovered by practicing physicians, or through the efforts of the Sanatorium staff, the delay in getting them under satisfactory treatment is too great through the continual lack of beds. It cannot be too strongly urged that additional Sanatorium beds are urgently needed.

Indian School Survey.

The annual visit and check up of the two Indian schools on the Blood Reserve near Cardston was carried out in October by Dr. G. M. Reid and Dr. L. M. Mullen, of the Sanatorium staff. Two hundred and seventy-six were examined. They report in part as follows: "This is the third survey of the children attending the two schools on this reserve. We have endeavoured to pick out those cases with definite disease who should be segregated, and also those with indefinite disease who should have some extra care to keep their general health up to par, but do not need to be kept out of school. We desire that our work should be considered as a help to the two schools concerned and to the doctor in charge, and should not be considered as a statistical survey, showing annually the amount of tuberculous disease which is present. At this point I might say that in our opinion the survey has been of real practical value. The heads of the schools and Dr. Mulloy have given splendid co-operation, both at the time the examinations were being made and later in looking after those children who needed extra care. The children who were classed as suspects are showing the results of extra care, and exclusion of the open case from the school lessens the amount of contact infection in the school."

Clinics.

The usual Wednesday afternoon clinics have been held at the Sanatorium and in Calgary, where the Calgary Tuberculosis Society operates the clinic. Twenty-three semi-monthly clinics were held in Edmonton at the University Outdoor Clinic on the first and third Thursdays of the month; 412 examinations were made at the Calgary clinics and 316 at Edmonton. Three visits were made to Lethbridge and two to Drumheller and Medicine Hat. A clinic was held at High River in conjunction with the Okotoks-High River Full Time Health District. In all this work an effort was made to examine members of families where tuberculosis is known to exist.

Valuable assistance has been continued throughout the year by the Kinsman's Club in Edmonton and the Tuberculosis Society in

Calgary in providing a full time tuberculosis nurse.

In High River the Rotary Club provided X-ray services. In Medicine Hat the Christmas Seal Sale Committee provided X-ray services and arranged the clinics. In Lethbridge the Nursing Mission organized the clinics and provided other services. The sale of Christmas seals by these various organizations has provided the funds necessary for this valuable work, and without which our clinics would have been much less effective in results.

Dr. Davison, travelling diagnostician, visited 47 other points, from Spirit River in the north to Coleman in the south, and as far east as Oyen.

CENTRAL ALBERTA SANATORIUM.

The year has shown no increase in accommodation and no gross structural alteration of buildings. Essential services have been maintained which, in view of reduced expenditure, has required more exacting work from every member of the staff, and I am pleased to pay tribute to the loyalty and conscientious work carried on by one and all.

Visit of His Excellency the Earl of Bessborough.

His Excellency the Earl of Bessborough and party honoured the Sanatorium with a visit on September 17th. His Excellency was pleased to visit the various buildings and to converse with many of the patients, and in addition received the entire group of exservice men. A pleasant feature of the visit was due to the fact that the bursar, Lieut.-Col. E. R. Knight, is an honorary aide to His Excellency, and as such had important duties in connection with the visit of the Governor General to Calgary and district.

Educational Work.

On October 4th the Calgary Medical Society met at the Sanatorium. Some 50 medical men were present, and listened to the programme put on by the staff. Dr. L. M. Mullen presented a paper on the "Diagnosis of Tuberculosis," and Dr. G. R. Davison a paper on the "Home Treatment of Tuberculosis." X-ray films were shown and various demonstrations of laboratory technique.

Dr. Mullen published in the Canadian Medical Journal a report of a case of artificial pneumothorax re-established, and presented to the Canadian Tuberculosis Association a paper on "Blood Sodimentation"

Sedimentation."

Dr. Baker addressed the graduate staff of the Royal Alexandra Hospital in Edmonton on "Tuberculosis in General Hospitals," and the Association of Graduate Nurses in Calgary on "General Remarks on Tuberculosis." Radio talks were delivered by Dr. G. R. Davison and Dr. Baker.

Need of Teacher.

We were fortunate in having a patient, a former school teacher, who was willing to undertake bedside instruction. For several months between 30 and 40 patients were engaged in study. The children and younger patients carried on ordinary school studies, others followed a line of special interest—bookkeeping, stenography, etc. Foreign-born studied English. The effort was a success. The patients had received interest in life, and something was being done to help fit them to return to remunerative employment, while others were encouraged in occupational work. Under the same direction a discussion group was arranged for some 20 male patients, who held weekly meetings for discussion, public speaking, etc. Unfortunately this patient has since left, and there is no one to carry on this useful work. It is urgently felt that next year provision should be made for a school teacher competent to help patients back into ordinary life.

Administration Department.

The total patient days numbered 74,541, which is practically the same as in 1931. The number of ex-soldier patients decreased so that the total days numbered only 3,041, a reduction of about one-third from last year. In other words, the ex-soldier patients represent only 4% of the strength, and the revenue derived from their maintenance is accordingly reduced.

The per diem cost for the year ending March 31st, 1932, was \$2.35, a reduction of 12c over the preceding year. As pointed out previously, this figure includes expenditure on clinics and all follow-up work in the Province.

Medical and Nursing Services.

The respective staffs have remained almost unchanged throughout the year. Three assistant physicians, including the travelling diagnostician, are employed, and a matron and 19 graudate nurses. About 75% of the patients receive infirmary or hospital care.

Dental Services.

Dental service is rendered free to patients except for nominal charge for dentures, bridge work and any special procedures. It is our object to see that every patient has a satisfactory, healthy mouth, capable of proper mastication. The conscientious work of Dr. Heacock, provincial dentist, is keenly appreciated.

Dental Report for Calendar Year, 1932.

"During the year I visited the Central Alberta Sanatorium ten times, having been absent February and July.

No. of patient ex	xaminations	658
No of nationt tre	eatments	698
140. Of patient tit	cathents	507
No of prophylact	ic treatments	
Tio. of prophylact.	ac deadments	235
No. of fillings		200
NT 6		293
190. Of extractions	5	H O F
No of now dontes	res	137
No. of new dentu.	res	
No of dentures r	congined	10
a.o. or dentures i	repaired	9

"When admitted to the Sanatorium many patients had been sick for a considerable time. Owing to their condition, care of the teeth frequently has been neglected, and as a consequence dental disease is prevalent. An unhealthy oral cavity is generally the cause of many systemic ills; it is also the cause of much local discomfort. Therefore, it is wise to institute remedial treatment as soon after admission as the condition of the patient will permit."

"A. E. Heacock."

Dietary Department.

This work is directed by a dietitian, graduate of McDonald College. The number of meals served was 316,488, at a food cost per meal of 0.119 cents.

The Library.

The library continues to be a source of great interest to many patients. We have some splendid shelves of books, but are always needing additions to replace those worn out. Through the kindness of friends, from time to time, we are able to add to our stock. The number of books issued to readers last year was some 6,500.

Recreation.

Since the opening of the institution in 1920 our patients have been entertained by moving pictures once a week. However, the old machine is for silent films only, and as these have largely disappeared, we regret that it has been impossible to provide this diversion. It is hoped that before long we may have a sound machine of a portable type, so that some help can be given to those who have been bedridden for months, and in some cases for years. A new radio was installed which has provided a better service to the individual bedside earphones.

Divine Services.

The Sanatorium is deeply indebted to members of the Calgary Ministerial Association, the Anglican Church, the Roman Catholic Church, and the Salvation Army for divine services held and for bedside visits. Special appreciation is due to those who have assumed more definite responsibility—Rev. Capt. Muncaster, Rev. Father McDonald, Rev. Mr. Aldridge and the Venerable Archdeacon Swanson. These gentlemen have performed a real and very much appreciated service to our patients.

	CLASSIF	ICAT	ION O	F DIS	CHARGED	PATIEN	ITS,	193	2			
On A	On Admission. Residence.							C	On Discharge.			
		No	Total.	T.B. %	Not over 31 days.	Over 31 days.	A.	AA.	Q.	I.	U.	D.
I. No Disease	e	4			1	3					3	
II. Undiagnos	ed	1				1				1		
III. Non-Tuber	culous	27		****	10	17				11	5	1
IV. T.B. Inact	ive											
m		-	-				_			1.0		
Total		32	16.1		11	21			****	12	8	1
V. T.B. Pulmo 1. Clinical (no b	acilli foun			_								_
Minimal	A	17	• • • • •		••••	17	• • • • •	3	7	4	3	• • • • •
	B C	• • • • • • • • • • • • • • • • • • • •	••••	****	••••	••••		• • • •		• • • • •	• • • • •	****
Mod. Adv.	A	20	****	****	****	20			10	10		
Qu. 11uv.	В	2			****	2			2.0	2		
	C	ī			••••	ī					• • • • •	1
Far Adv.	A	1				1			1			
	В	3			••••	3				3		
	C	2			****	2			• • • •	1		1
		-			-	_						
		46	23.2	28		46		3	18	20	3	2
9 Danistina (1	111. 6 . 11											
2. Positive (back Minimal												
millimai	A	1	****	••••	••••	1	• • • •				1	
	B C	••••			• • • •	****						• • • •
Mod. Adv.	A	12	••••	`	1	11						****
	В	3				3	• • • •	• • • •	5	3	3	1
	C		****		****						1	1
Far Adv.	A	26			2	24			5	10	2	7
	В	39			1	38			4	13	10	11
4	C	33			5	28			ĺ	4	10	13
Apparently	Hopeless	4	****	****	3	1						1
		118	59.6	71	12	106			15	31	27	33
Total Pul. T.F	3. Active	164	82.9		12	152		3	33	51	30	35
VI TO M. D	,				-			-		_		
VI. T.B. Non-P		2	1	1		2	••••			2	• • • •	
Tot. "Treated" Classification charge of 23	on dis-	175	****	****	••••	175	••••	3	33	65	38	36
not in resider					T	Inchanged						
31 days		23	****	****		12				3		8
		100			-		_	_		_		
		198			****	12		3	33	68	38	44
Explanation of the National vanced refer to toms in order Quiescent, "I" I N.B.—Only	anatomic of increas improved, those in	al extended al ext	tent of severity Unimplence ov	disea . "A roved, er 31	se, while "Arrested	"A", "B"	ly A , an Appa	dvan d "C irent]	ced a '' si	ation and l gnify rrest	is t Far A syr ed,	hat Ad- np- 'Q''
TOTAL NUMB				YS		INFI						
D.P. and N.H. Civilian			71	,500	D.P. ar	d N.H.						376
			-	,541				*******	••••••	******		555
						D D 37	7.1	<i>C</i> :-			56,	
Patients in San Patients treated	atorium 3	Jan. 1	, 1932			D.P.N.	н.		ilian. 98		Tota	

D.P. and N.H. 3,041 D.P. and Civilian 71,500 Civilian	N.H	ARY DAYS	1,376 55,555
Patients in Sanatorium Jan. 1, 1932	D.P.N.H. 8 19 7	Civilian. 198 383 197	56,931 Total: 206 402 204
CI ACCIPICATION ON ADMICES			

CLASSIFICATION ON ADMISSION OF 198 DISCHARGED PATIENTS No disease 4 Tuberculosis, inactive Undiagnosed 1 Tuberculosis, pulmonary, active 164 Non-Tuberculous 27 Tuberculosis, non-pulmonary 2

CLASSIFICATION OF 152 "TREATED" CASES OF ACTIVE PULMONARY TUBERCULOSIS

On Admission. Minimal Moderately advanced Far advanced Apparently hopeless	18 37 96 1	Benefited. 14 31 42 	Non-benefited. 4 4 22	Died 2 32 1
	152	87	30	35

DIAGNOSIS OF NON-TUBERCULOUS CASES

Pulmonary Abscess 1 Asthma 1 Bronchiectasis 1 Chronic Bronchitis 1 Carcinoma of liver with mediastinal metastasis 1 Carcinoma of stomach 1 Debility 2 Pleural Empyema 1 Lues 1 Multiple Myeloma 1 Nephritis 1	Pleurisy Post Infl Pregnanc Pulmonar Pyopneum Sinusitis Septic To Subacute Scoliosis Upper Re	uenzal I y Fibrosi nothorax nsils Bacterial	ebilitys	ditis	1 3 1 2 1 1
REPORT OF (CLINICS H	ELD			
Calgary Clinic Edmonton Clinic Sanatorium Throughout Province Indian Schools, Cardston Staff at Sanatorium	Clinics. 42 23 52 52 1	Ex-Pts. 2 Exam. 22 106 38 60 	New T.B. Cases. S 18 42 22 36 9	uspects 19 35 12 34 49	Total Exams. 228 316 184 491 276 111
Total		• • • •			1,606
HELIOTHERA Lamp Treatments: Under treatment Jan. 1, 1932 Began treatment during year Discontinued treatment during year Total number treated during year Total number of treatments	APY REPOI	RT			32 35 55 .
	No. Treated	No. Trea	tments		Time
Sun Baths	517		86 81 25	9,427	½ hrs. hrs. 2-3 hrs.
SUMMARY OF OPER	ATING DO	OM WOI	D 12"		
Pneumothorax Cases: Number under treatment Jan. 1, 1932 Number new cases Number cases carried on from other treatment Number cases terminated during year Number under treatment Dec. 31, 1932 Number unsuccessfully attempted Pneumothorax refills (75 patients) Initial pneumothorax cases (successful) Initial pneumothorax cases (unsuccessful) Intravenous injections Calcium Chloride Intravenous injections Glucose and Saline Interstitial injections Saline Interstitial injections Lipiodol Aspirations of air from Pleural Cavity Aspirations of fluid from Pleural Cavity Irrigation of Pleural Cavity Oleothorax treatments Exploration Punctures	ful)	res			31 28 47 1,545 1,545 15 15 15 15 651 17 11 11 123 70 62 26
Aspiration of Abscesses Enlargement of Sinus into Pleural Cavity v Injection of Lipiodol into Pleural Sinus Rib Resection Phrenic Avulsions Pneumoperitoneum Abdominal Paracentesis (2 patients)	vith drainag	e			1 1 1 7 4 10
Excision of glands Lumbar Punctures (9 patients) Suturing of Wound Basal Metabolism Tests Obstetrical case Examinations and Dressings			•••••••		20 2 9 1
Total					1,116
Sputum Examinations In Patients	Pleural	Fluid			
Out Patients 100 Staff 5 Other Examinations 2,837	Guinea Faeces	Pig Auto	ulation psies ons		50
Other Examinations Urinalysis (Routine and Special) 2.574 Blood	Tota	l Examin	ations		4,577 7,414

Number of patients admitted during	1932		196
Number with positive sputum on adr	nission		121
Number developing positive sputum b	ere		7
Number with sputum persistently nega	itive		68
Number diagnosed Tuberculosis			161
O VEG A MENELLO	TO TO TO TO	TAL WORK DONE	
		NTAL WORK DONE	
Patients examined		Plates	15
Patients treated	507	Repairs to Plates	137
Prophylaxis		Extractions	191
Fillings	293		
X-	RAY	REPORT	
Radiographic:	14111	14131 0141	
Chest	903	Tibia	1
Spine	35	Dental	83
Pelvis	5	Gastro-Intestinal	58
Hip	2	Barium Enema	4
Knee	8	Fluoroscopic:	
Hand	6	Chest (Gas Cases)	
Skull	30	(Others)	261
Ribs	1 3	(Lipiodol)	11
Ankle Elbow	1	Barium Series	57
E100W	T	Darium Enemata	4
I.—SEX:		II.—SOCIAL:	
Male		Married	
Female	91	Single	
		Widows	
Total	198	Widowers	3
		The state of the s	
III ACEC.		Total	198
III.—AGES: 5 to 9 years of age	3	40 to 40 man of	0.0
10 to 14 years of age	3	40 to 49 years of age	28
15 to 19 years of age	23	ov to ob years of age	11
20 to 29 years of age	80	Total	100
30 to 39 years of age	50	10041	198
IV.—RELIGION:			
Baptist	13	Presbyterian	30
Brethern	2	Pentecostal	1
Church of Christ	1	Roman Catholic	42
Church of England	32	United	38
Greek Catholic	7	Salvation	1
Greek Orthodox	$\begin{array}{c} 6 \\ 17 \end{array}$	Non-sectarian	2
Hebrew	2	Seventh Day Adventist	2
Latter Day Saint	2		100
	м		198
V.—OCCUPATIONS (Women):			
Clerk	2	Nurse	6
Factory Worker	1	Stenographer	3
Hairdresser	1	Student	12
Housekeeper	1	Teacher	5
HousewifeLaundress	44	Waitress	2
Maid	1 4	None	3
Nurse-in-Training	6		-
Training	O		91
VI.—OCCUPATIONS (Men):			
Accountant	2	Grain Inspector	-
Advertiser	1	Immigration Inspector	1
Baker	1	Labourer	19
Bank Manager	1	Merchant	1
Bricklayer	1	Miner	Ð
Bookkeeper	1	Physician	1
Carpenter	1 1	Salesman	4
Civil Servant	1	Soldier	1
Clerk	7	Storekeeper	1
Cattle Buyer	i	Student	
Dentist	1	Teacher Timekeeper	1
Drayman	1	Orderly	1
Electrician	1	None ,	
Farmer	35		1
Gardener	1		107
VII.—NATIVITY:			101
Alberta	10	Nowform dland	
Canada	49	Newfoundland	1
Austria	2	Norway	2
Belgium	1	Poland Roumania	8
Denmark	2	IVUSSIA	2
England	23	bwitzeriand	3
France	1	Deotiand	1
Germany	3		15
Hungary	2	Onited States	6 21
Ireland	6		1
Italy Jugo-Slavia	1	Wales	4
Latvia	1		
	1		198

'A: 15 to 19 years 20 to 24 years 25 to 30 years Over 30 years Over 30 years Negro Norwegian Polish Roumanian Russian Slav Scotch Swedish Swedish Swiss Ukrainian Welsh Medicine Hat Red Deer Wetaskiwin Innisfail Macleod Ponoka Vegreville Taber	22 30 8 4 198 166 77 112 139 100 1105 5 198
Norwegian Polish Roumanian Russian Slav Scotch Swedish Swiss Ukrainian Welsh Medicine Hat Red Deer Wetaskiwin Innisfail Macleod Ponoka Vegreville	6 7 1 2 1 39 10 1 10 5 7 198
Norwegian Polish Roumanian Russian Slav Scotch Swedish Swiss Ukrainian Welsh Medicine Hat Red Deer Wetaskiwin Innisfail Macleod Ponoka Vegreville	6 7 1 2 1 39 10 1 10 5 7 198
Red Deer Wetaskiwin Innisfail Macleod Ponoka Vegreville	2 3 3
Red Deer Wetaskiwin Innisfail Macleod Ponoka Vegreville	2 3 3
Red Deer Wetaskiwin Innisfail Macleod Ponoka Vegreville	2 3 3
Macleod Ponoka Vegreville	
Macleod Ponoka Vegreville	
	2 1 1
Lamont Rocky Mountain House Ryley Banff National Parks Waterton National Parks Transients	2 1 1 1 1 3
No. 769	1 1 1 1
M.D. 428 M.D. 456 M.D. 457 M.D. 458 M.D. 484 M.D. 485 M.D. 488 M.D. 488 M.D. 512 M.D. 513 M.D. 514 M.D. 515 M.D. 544 M.D. 545 M.D. 546 M.D. 549 M.D. 518	1 2 1 1 2 1 2 1 2 1 1 1 2 1
	No. 695 No. 769 No. 771 M.D. 427 M.D. 428 M.D. 456 M.D. 457 M.D. 458 M.D. 485 M.D. 485 M.D. 488 M.D. 488 M.D. 489 M.D. 512 M.D. 513 M.D. 514 M.D. 515 M.D. 544 M.D. 545 M.D. 545 M.D. 546 M.D. 546 M.D. 549

ENTERTAINMENTS AND DONATIONS, 1932.

CONCERTS—Office Staff Union Milk Company; Miss Minnie Jackson; B.P.O.E.; Mrs. E. J. Anderson; Mr. James Hogg; Mrs. Norman Dingle; Alice Murdock School of Dancing; Red Cross Society.

BAND CONCERTS-Elks' Band; Salvation Army Band; Sea-Cadets Band;

Pipers, 10th Batt. (1st Calgary Regiment).

PLAYS—Ratepayers' Association, G.K. and W.C.; Young People's Society, Knox Church; Young People's Society, St. Mary's Cathedral; Young People's Society, Grace Church; Young People's Society, Unity League.

ILLUSTRATED LECTURES-Dr. Carpenter; Mr. T. Underwood.

WHIST DRIVES-Military Chapter I.O.D.E.; Recreation Committee.

TOURNAMENTS—Billiard Tournament, Recreation Committee; Cribbage Tournament, Recreation Committee.

PARTIES—Recreation Committee, Hallowe'en Party; Annual Garden Party.

PASSES—Capitol Theatre; Palace Theatre; Strand Theatre; Grand Theatre; The Stadium; Calgary Exhibition and Stampede; Stampede Parade.

DRIVES—Cars for Stampede Parade, T. Eaton Company; Decoration Day, Rotary Club; other occasions, Hudson's Bay Company.

REPAIRS TO BIRD BOXES-Tenth Troop Boy Scouts.

BOOKS AND MAGAZINES—Rotary Club (6 Subscriptions); Red Deer Advocate (1 Subscription); Herald Lending Library (34 Volumes); Mrs. A. M. Scott (4 Volumes); Mrs. H. W. McLean (54 Volumes); Mr. Leigh Spencer (40 Volumes); Calgary Public Library (3 Volumes); Toc H Magazine; Sunshine Club, Christ Church.

FLOWERS-Mr. E. L. Richardson.

CHRISTMAS DONATIONS—Cheques: Tuberculosis Veteran's Association, Samaritan Club, Capt. McPhail Chapter I.O.D.E., Mr. Hugh Farthing. Chocolates, Cigarettes, Turkeys, etc.: Ontario Laundry; Mrs. McCrindle, Byemoor; Mr. A. J. Weyers; Union Milk Company; Y. W. C. T. U., Claresholm; Catholic Women's League. Parcels for Patients: Red Cross Society; Military Chapter I.O.D.E.; Calgary Tuberculosis Society; Children's Hospital Aid; Knights of Columbus; Catholic Women's League; Junior Catholic Women's League; Edmonton Board of Relief.

ANNUAL REPORT

OF THE

Vital Statistics Branch

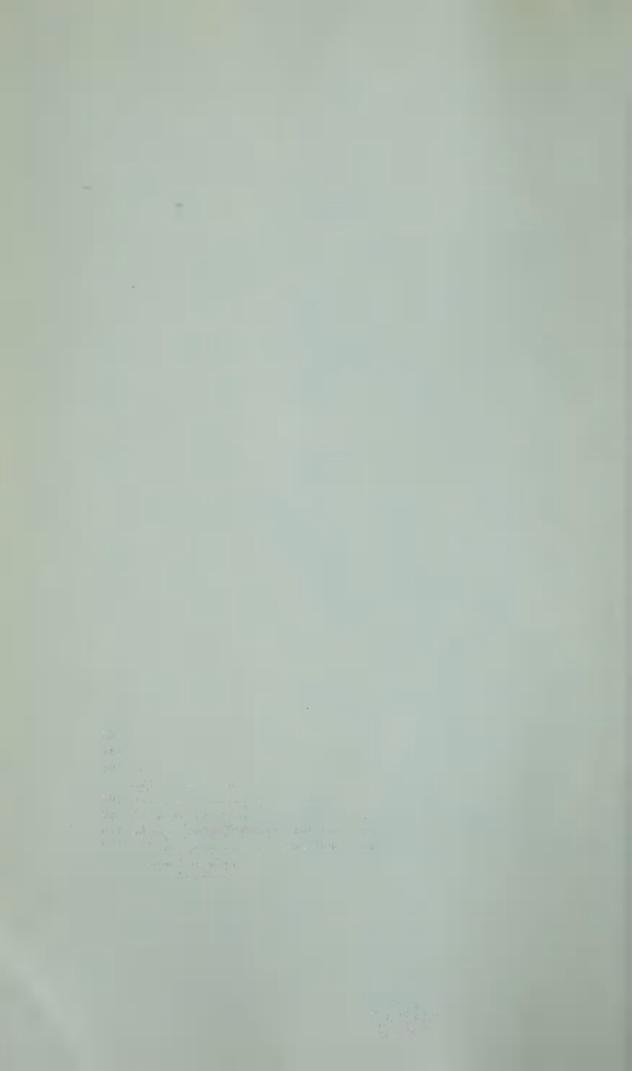
OF THE

DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA
1932



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VITAL STATISTICS BRANCH

(Donald Mackie, Deputy Registrar General)

The outstanding features revealed by the vital statistics of the year under review show a further decrease in the birth rate, a decrease in the marriage rate, a slight increase in the general death rate, and substantial decreases in the maternal and infantile death rates.

The birth rate per thousand population is the lowest recorded in any year since the beginning of provincial registration, notwithstanding the fact that it is higher than that of any Province west of Quebec. The number of deaths and the death rate show a slight increase over the previous year, but are less than the average for the preceding five years. The infantile death rate and the maternal mortality rate both constitute a new low record. The mortality attributed to epidemic and contagious diseases has generally maintained the low rates reached during the preceding year, with the exception of influenza, which has doubled; this is due, however, to the fact that in the two previous years the influenza rate was remarkably low. The cancer rate still moves steadily up, the increase over the preceding year amounting to no less than 22%. The number of deaths from suicide has considerably decreased, owing probably to relief measures and legislation enacted to alleviate the situation with regard to debtors. Deaths from violence, especially automobile accidents, show a considerable decline over the previous year, which may be attributable to the economic conditions prevailing.

The population of the Province of Alberta for the year ending 1932 has been estimated by the Dominion Bureau of Statistics at 740,000; this figure has therefore been used in this report when estimating rates.

The total living births registered during the year numbered 16,990, being equivalent to a birth rate of 22.96 per 1,000 population, and is 262 less than the number for the preceding year.

Comprising the 16,990 births were 8,713 males and 8,277 females, the ratio being 1,052 males to 1,000 females, which is approximately the average for the previous ten years. There were 466 twins and 9 triplets. The number of illegitimate children born was 605, being 30 less than the previous year, and constituting a rate of 3.6 per 100 births.

Of the total births registered, 7,361 occurred in the cities and towns of over 1,000 population, 8,891 in the rural districts, and 738 on Indian reservations. The births registered in the four large cities are as follows: Edmonton 2,320, Calgary 1,726, Lethbridge 526, and Medicine Hat 358.

For comparison, the following are the birth rates in the Canadian Provinces for the year 1932:

~ .			100
Canada	22.4	Ontario	19.2
Prince Edward Island	22.8	Manitoba	
Nova Scotia	22.3	Saskatchewan	22.3
New Brunswick	26.2	Alberta	22.9
Quebec	28.3	British Columbia	14.4

Marriages registered in Alberta during the year numbered 5,054. This number is 88 less than that of the previous year, and 339 less than the average of the 5 preceding years, and constitutes a rate of 6.83 per 1,000 population, which is still the highest marriage rate in any Canadian Province, the rate for Canada and the Provinces being as follows for the years 1932:

Canada	6.0	Ontario	6.4
Prince Edward Island		Manitoba	6.7
Nova Scotia	6.2	Saskatchewan	6.2
New Brunswick	5.8	Alberta	6.8
Quebec		British Columbia	5.1

There were 108 brides 16 years of age and under, 1,308 brides between the ages of 17 and 19, 2,308 between the ages of 20 and 24, 24 brides and 62 grooms were over 60 years of age, 17 of the grooms and 5 of the brides being over 70 years. The marriages in the four large cities were as follows: Edmonton 1,178, Calgary 869, Lethbridge 184, and Medicine Hat 147.

The divorces made absolute during the year numbered 149, which is 7 less than the number for the previous year, and 7 less than the average for the preceding 5 years; 68 were granted to husbands and 81 to wives.

The deaths of 5,521 persons (including Indians) were registered in Alberta during the year 1932, of whom 3,248 were males and 2,273 were females. This number is 219 more than in the previous year, and constitutes a death rate of 7.46 per 1,000 population, being an increase of .22 compared with the previous year. The following are the death rates for Canada and the various provinces during the year 1932:

Canada	9.9	Ontario	10 =
Prince Edward Island			
		Manitoba	7.5
Nova Scotia		Saskatchewan	6.5
New Brunswick	11.0	Alberta	7.4
Quebec	11.4	British Columbia	8 7

Heart disease accounted for the largest percentage of deaths, being 10.92 of the total. Cancer was again second, having risen from 8.32 of the total deaths to 9.76. Pneumonia with 6.56 and Violent Deaths with 6.18 were respectively third and fourth, the percentages, however, in these two causes having considerably decreased, as is shown in the following table. Pulmonary Tuberculosis was the fifth highest cause, accounting for 5.67 of the total, which is a slight increase over the preceding year. Influenza with 5.38 takes sixth place, and is almost double the rate for the previous year. The rate for puerperal deaths dropped to 3.76 per 1,000 births, representing 23 less deaths during the year.

The following table shows in order of frequency those causes of death which during the year or in previous years accounted for at least 1 per cent. of the total deaths. Both the actual numbers and the percentage of each is given, together with the figures for the three preceding years for the purposes of comparison:

	193	32	19	31	19	30	19	29
Causes of Death	Number	Per cent. of Total.	Number	Per cent. of Total	Number	Per cent. of Total	Number	Per cent. of Total
Diseases of the Heart Malignant Tumors Pneumonia (all forms) Violent Deaths (suicides excepted). Pulmonary Tuberculosis Influenza Diseases of the Circulatory System (heart excepted) Nephritis Apoplexy Appendicitis Diarrhoea and Enteritis (under 2 yrs. of age) Suicides Diseases and Accidents of Pregnancy Whooping Cough Measles Diphtheria Typhoid Fever Scarlet Fever	539 362 341 313 297 283 218 149 137 131 96 64 34 14 10	13.80 9.76 6.56 6.18 5.67 5.38 5.13 3.95 2.70 2.48 2.37 1.74 1.16 62 .25 .18 .10	503 441 410 408 306 186 389 168 126 132 153 123 87 32 7 25 16	9.49 8.32 7.73 7.70 5.77 3.51 7.34 3.17 2.38 2.49 2.32 1.64 .60 .13 .47 .30	564 482 468 463 321 130 252 172 116 1337 114 51 13 30 16 31	10.26 8.75 8.52 8.42 5.84 2.37 4.59 3.13 2.11 2.49 2.33 2.06 2.07 .93 .24 .55 .29	564 452 561 474 321 429 223 211 131 152 145 84 123 70 82 64 266 45	9.05 7.25 9.00 7.60 5.15 6.88 3.57 3.38 2.10 2.44 2.32 1.35 1.98 1.12 1.31

The foregoing list comprises 3,763 deaths, and amounts to 67.9% of the total deaths for the year.

The deaths of children less than one year old numbered 997, being 200 less than the previous year. This constitutes an infantile mortality rate of 58.62 per 1,000 births, a decrease of 10.8 from the previous year, and is 13.6 less than that of the average of the 5 preceding years.

The following table gives, for the purpose of comparison, the infantile mortality rate for Canada and the provinces for the year 1932:

Canada	73.2	Ontario	61.9
Prince Edward Island	65.1	Manitoba	59.2
Nova Scotia	72.9	Saskatchewan	63.6
New Brunswick	71.6	Alberta	58.6
Quebec	94.2	British Columbia	46.8

There was a decrease in deaths by suicides, the number being 96, compared with 123 for the previous year. Deaths by murder and manslaughter were 9, a decrease of 14 from the previous year. Stillbirths numbered 481, as compared with 453 for the year 1931.

DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTIC PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use as smaller areas the Dominion Census Divisions.

These Divisions are fixed, and as the population increases, may be subdivided without destroying their value for purposes of Vital Statistic comparison with preceding years.

The following table shows these Census areas divided into Municipalities, Local Improvement Districts, Cities, Towns and Villages with the 1931 and 1926 official Division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926

Census Divisions and	Popu	lation	Census Divisions and	Population		
Municipalities	1931	1926	Municipalities	1931	1926	
Province	731,605	607,599	Division No. 2-Continued:			
Division No. 1: Medicine Hat	28 849	25,624	Towns-Continued:			
1 L.I.D	90	64	Coleman	1,704	2,04	
2 L.I.D.		134	Diamond City	119	2,04	
3 L.I.D	152	127	Granum	329	27	
4 L.I.D		554	Macleod	1,447	1,71	
5 L.I.D.	1,097	876	Magrath	1,224	1,20	
6 L.I.D		482	Pincher Creek	1,024	1,00	
31 L.I.D		38	Raymond	1,849	1,77	
32 L.I.D	580 477	531 513	Villages	2,161	1,93	
34 Burlington		773	Coaldale	251	16	
35 L.I.D.		215	Cowley	953 151	79	
36 Warner	1,214	956	Frank	268	14	
61 L.I.D	808	799	Monarch	117	2 5	
62 L.I.D	684	682	Pincher City	45	5	
63 L.I.D.	570	449	Stirling	376	32	
64 Forty Mile	1,060	1,118				
65 Eureka	1,148 2,082	779	Division No. 3: Bow	15,066	12,14	
66 L.I.D	1,115	1,464 $1,007$	96 McLean 121 L.I.D.	713	66	
92 Excelsior	905	776	122 L.I.D.	452	36	
93 L.I.D.	852	612	123 Sunny South	357	36	
94 Bow Island	605	542	124 L.I.D.	30	13	
Cities	10,300	9,536	125 L.1.D.	713	13	
Medicine Hat	10,300	9,536	126 L.I.D.	620	45	
Towns	1,827	1,851	151 L.I.D.	1,097	83	
Bow Island	314	299	152 L.I.D.	129	12	
Irvine Taber	234 1,279	210 1,342		135	15	
Villages	813	746		620	14	
Burdett	121	112	156 L.I.D.	722	65	
Milk River	350		181 L.I.D.	1,304	66	
Warner	342	313	182 L.I.D.	349	1,19	
			183 Britannia	477	42	
ivision No. 2: Macleod	57,186		184 L.I.D	169	13	
7 L.I.D. 8 L.I.D.		324	185 L.I.D.	1,634	1,22	
8 L.I.D. 9 L.I.D.	$\begin{bmatrix} 1,474 \\ 1,580 \end{bmatrix}$	1,360	186 L.I.D.	803	56	
10 Cochrane	1,320	1,495	211 L.I.D.	548	43	
37 Sugar City	1,993	1,692	Towns	2,515	2,20	
38 L.I.D	1,276	1,156	Brooks	708	77 51	
39 Kerr	2,007	1,522	Redcliffe	1,192	91	
10 Castle River	540	582	Villages	747	87	
57 L.I.D	4,691	3,470	Alderson	81	7	
88 L.I.D	2,340	1,435	Duchess	114	13	
O Livingstone	1,442	1,300	Empress	314	37	
1 L.I.D.	4.282	3,965	Enchant	92	71	
9 Argyle	1,900	1,805	Jenner	62	4.	
00 L.I.D	677	640	Retlaw	84	9	
01 L.I.D.	192	149	Division No. 4: Nanton 2	29,067	24 77	
Indian Reserves	1,798	1,094	31 L.I.D.	2,258	24,779 1,48	
Cities	13,489	10,735	98 Little Bow	1,589	1,58	
Lethbridge	13,489	10,735	127 Clifton	1,043	820	
Towns	12,153	12.92411	128 Harmony	1,157	1,15	
Cardston	1,672	1,00911	129 Clear Lake 130 L.I.D.	2,231	2,198	
				395	30	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICI-PALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popu	lation	Census Divisions and	Popul	ation
Municipalities	1931	1926	Municipalities and	1931	1926
ivision No. 4—Continued:			Division No. 6—Continued:		
57 Marquis	1,923	2,147	279 Norquay	2,170	2,35
58 Royal	1,751	1,802	280 Rosebud	2,177	2,15
59 Riley		2,052	281 Beaver Dam	1,926	1,66
60 L.I.D		305	282 L.I.D	593	50
61 L.I.D	40	39	308 Ghost Pine	2,129	2,20
89 Dinton			309 Stauffer		1,97
90 Sheep Creek		1,861	310 Mountain View		2,37
91 Stockland			311 Westerdale		2,22
92 L.I.D	4,343	4,035	Unorganized parts		1,92
Carmangay		290	Indian Reserves Banff	2,109 $2,519$	1,63 2,20
High River		1,377	Cities		61,86
Nanton		729	Calgary		65,29
Okotoks		579	Drumheller		2,57
Stavely	303	285	Towns	3,475	3,42
Vulcan	803	775	Didsbury		78
Villages		1,306	Gleichen		51
Arrowwood			Olds		1,00
Barons		256	Strathmore		54
Black Diamond			Three Hills		5.8
Blackie		289	Villages		3,74
Cayley		191	Acme	234	22
Champion Lomond		287 147	Airdrie		19
Milo			Beiseker Carbon		21
Nobleford	143	136	Carstairs		4 2 3 8
Turner Valley	656		Cluny		19
			Cochrane		28
ivision No. 5: Acadia	26,651	27,247	Crossfield		31
12 L.I.D	697	591	Hussar		
13 L.I.D	398	374	Irricana	161	13
14 Berry Creek		534	Langdon	83	6
15 Bulyea	316	336	Newcastle	304	28
41 Acadia		841	Rockyford		18
42 Cereal		1,925	Rosebud	101	1 5
43 Collholme		711	Standard	218	22
44 Flowerdale 45 Lonebutte	704	718	Swalwell		4.5
46 L.I.D.	613	637 308	Trochu	506	4.5
71 Bertawan	1,186	1,229	Division No. 7: Battle River	38,106	25 00
72 Golden Centre		1.130	331 L.I.D.	1,180	35,99 1,14
73 Sounding Creek		752	332 L.I.D.	1,015	99
74 Richdale	788	721	333 L.I.D	1,255	1,14
75 Hand Hills		1,099	334 Coronation	2.022	1,86
77 Michichi			335 Sullivan Lake	707	7:
01 Canmer	814	1,035	361 Rosenheim	1,744	1,5
02 Stewart		857	362 Hillcrest	1,200	1,2
03 Wiste			363 Stocks	1,186	1,1
04 Hiram 05 Dowling Lake		617	364 Flagstaff		1,8
06 Lambton		1,694	365 Progress		1,8
07 Starland			392 Vale		1,5
Towns			393 Huamha		8 1,1
Hanna	1,490	1 400	394 Asquith	1,205	1,2
Youngstown			395 Wheatland	1.819	1,6
Villages	1,724		421 Ribstone	1,452	1,3
Cereal		150	422 Gilt Edge	1,674	1,4
Chinook			423 Battle River	1,466	1,0
Craigmyle			424 Kinsella	1,237	1,0
Delia		329	425 Stirling	1,925	2,1
Morrin			455 Iron Creek		1,9
Munson		223	Towns		2.8
Oyen			Castor		6
Richdale			Coronation		7
Rumsey	83	89	Hardisty		5
ivision No. 6: Calgary	140 624	114 041	Wainwright Villages		1,0
16 L.I.D.	520	297	Alliance		4,2
17 L.I.D	794	977	Cadogan		1
18 Blackfoot		1,787	Chauvin		2
19 Bow Valley		1,981	Compeer		21
20 Shepard	3,048	2,470	Consort		1
21 Springbank	2,166	1,716	Czar		1
22 L.I.D	438	372	Edgerton		1
47 L.I.D	1,073	945	Forestburg		2
48 Grasswold	1,448	1,495	Galahad		1
	1,525		Hughenden		1
49 Keoma		2,210			
49 Keoma 50 Beddington	2,272	2,339	Irma	196	1
49 Keoma	2,272 1,427			196 326	1: 3: 2:

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICI-PALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

	Popul	ation	Census Divisions and	Popul	ation
Census Divisions and Municipalities	1931	1926	Municipalities	1931	192
Division No. 7—Continued:			Division No. 9—Continued:		
Provost	533	476	Unorganized parts	2,895	1,7
Sedgewick	338	362	Indian Reserves	249	
StromeVeteran	172 180	182 167	JasperVillages		1,9
Viking	492	447	Bentley	- 0 0	2
	į		Bowden	233	2
ivision No. 8: Red Deer		57,693	Eckville North Red Deer		1 2
36 Success	1,705 1,074	1,592 1,140	Rimbey		2
88 Hays	2,364	2,458	Rocky Mt. House		4
9 Pine Lake	2,098	1,974	Sylvan Lake	416	2
0 Arthur	$\begin{bmatrix} 2,177 \\ 1,425 \end{bmatrix}$	1,952 1,356	Division No. 10: Victoria	58,049	51,8
7 Waverly	1,995	1,839	451 Merton	1,792	1,2
6 Haig	1,486	1,456	452 Grizzly Bear		9
7 Lakeside	1,622	1,517	453 Buffalo Coulee		1,0
98 Lamerton	2,205 3,689	2,291 3,644	454 Lakeview		1,3 1,5
26 Melrose	2,537	2,425	482 Vermilion Valley		1,4
27 Evergreen	2,592	2,677	483 Melberta	1,992	1,6
28 Waterglen	1,386	1,346	484 Birch Lake		2,1
29 Fertile Valley	3,856	2,080	485 Patricia		1,7
7 Lloyd George	2,791	2,702	511 Streamstown		1,7
8 Montgomery	3,329	3,298	512 Ethelwyn		2,4
59 Bigstone	2,807	2,386 971	513 Ukrainia 514 Sobor		2,8
Cities	4,469	3,905	515 Norma		3,0
Red Deer	2.344	2,021	516 The Pines	3,464	2,4
Wetaskiwin	2,125	1,884	545 Eagle		3,8
Towns	7,455 455	8,412	546 Wostok		4,5 3,8
Camrose	2,258	2,002	Towns		3,3
Daysland	404	490	Lloydminster (part)		4
Innisfail Lacombe	1,024 1,259	944	Vegreville Vermilion		1,7
Ponoka	836	1,931	Villages		1,2
Stettler	1,219	1,127	Andrew		
Villages	3,842	3,421	Bruderheim	280	3
Alix Bashaw	241 385	229 418	Chipman Derwent		3
Bawlf	183	184	Holden		2
Bittern Lake	47	37	Innisfree	227	2
Blackfalds Botha	84 107	105 128	Islay Kitscoty		1
Clive	215	208	Lamont	280 507	2
Delburne	193	151	Lavoy	151	1
Donalda Edberg	169 131	191	Mannville	307	3
Elnora			Minburn Mundare	119 832	1
Erskine	174	160	Myrnam	131	
FerintoshGadsby	161	126	Ranfurly		
Halkirk	160	162 165	Ryley Two Hills	236 149	2
Heisler	125	113	Willingdon	250	
Millet Mirror	300 534	241			
New Norway	142	431 137	Division No. 11: Edmonton	2,753	
Ohaton	69	74	1488 Black Mud	3 797	2,3
Penhold	125	161	489 Liberty	4 662	4,5
ivision No. 9: Rocky Moun-			490 Pioneer		1,4
tain House	24,503	20,024	517 Clover Bar	9 754	2,8
12 Waterloo 41 Poplar Grove		665	1018 Stratheona	3 555	3,3
41 Poplar Grove 42 Raven	$\begin{bmatrix} 2,540 \\ 1,712 \end{bmatrix}$	2,366 1,447	519 Spruce Grove	3,499	3,1
43 Prairie Creek	610	528	520 Inga 521 Tomahawk		2,5
44 L.I.D	48	17	548 Sturgeon	4 309	3,7
71 Golden West		2,110	1549 Kay	2 558	3,2
01 Lochearn		2,162 2,052	550 Woodford 551 Morthen	2 408	2,0
03 L.I.D	347	269	Indian Reserves	336	1,8
30 Blindman	1,376	1,439	Cities	70 107	65,1
31 Last West 32 L.I.D	1,074	894	Edmonton	79 1971	65,1
33 L.I.D	24	9	Towns	5 401	4,9
34 L.I.D	366	324	Fort Saskatchewan	1 001	9
60 Columbia		742	Leduc	000	8
62 L.I.D.		344	Morinville	570	5
63 L.I.D	30 1		St. Albert Stony Plain	825 497	6
64 T. 44-46, R. 13-15, W. 5					

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Census Divisions and	Popul	ation	Census Divisions and	Popul	ation
Municipalities	1931	1926	Municipalities	1931	1926
Division No. 11—Continued: Villages Alberta Beach Hay Lakes Onoway Seba Beach Spruce Grove Wabamun	593 38 125 149 41 76 164	264	Division No. 14—Continued: 581 Pershing 606 I.I.D. 607 L.I.D. 608 Tawatinaw 609 Pibroch 610 Shoal Creek 611 L.I.D.	1,664 131 887 8,147 2,210 2,095 406	939 63 525 1,168 1,660 1,450 133
Division No. 12: Edson 493 L.I.D. 496 L.I.D. 522 Rocky Rapids 523 L.I.D. 525 L.I.D. 526 L.I.D. 527 L.I.D. 528 Pembina 553 L.I.D. 554 L.I.D. 554 L.I.D. 555 L.I.D. 555 L.I.D. 555 L.I.D. 558 L.I.D. 558 L.I.D. 558 L.I.D. 558 L.I.D. 558 L.I.D.	13,815 902 1,148 13 24 116 244 2,041 728 685 655 274 57 2,340	10,968 4 664 343 4 29 156 114 1,212 319 341 357 249 70 1,906	636 L.I.D. 637 Cartier 638 Nelson 639 L.I.D. 640 L.I.D. 665 L.I.D. 667 L.I.D. 668 Grosmont 669 L.I.D. 697 L.I.D. 698 L.I.D. 698 L.I.D. 698 L.I.D. 726 L.I.D. 727 L.I.D. 728 T. 71-74, R. 22-24, W. 4, N. of Athabasca	217 1,273 1,486 757 687 1,130 1,342 886 79 144 499 40 357 274 76	113 890 874 393 278 822 645 466 130 39 283 11 100 12 60
583 L.I.D. 584 L.I.D. 586 T. 56-59, R. 19-22, W. 5, and S.E. of Athabasca R. 587 T. 56-58, R. 21-24, W. 5, and W. of Athabasca R. and St. Berland R. 588 L.I.D. 612 L.I.D.	654 543 6 341	736 349 3	R. 729 L.I.D. Towns Athabasca Villages Barrhead Clyde Lac la Biche Legal Smoky Lake Westlock	120 573 573 1,973 222 186 313 350 366 536	25 53 435 435 1,625 177 437 308 310 393
Territorial Units 615, 585 Unorganized parts Towns Edson Villages Entwistle Mayerthorpe	12 1,133 1,547 1,547 348 189 159	13 2,182 1,493 1,493 170 170	Division No. 15: Clearwater 613 L.I.D. 641 L.I.D. 642 L.I.D. 705 L.I.D. 706 L.I.D. 707 L.I.D.	13,664 53 543 9 24 270 141	6,328 161 2 22 99
Division No. 13: Beaver R 541 L.I.D 542 Lincoln 543 Laurier 544 Champlain 571 L.I.D 572 Bonnyville 573 St. Vincent 574 St. Lina 575 Vilna 601 L.I.D 602 L.I.D 603 L.I.D 604 L.I.D 604 L.I.D 631 L.I.D 633 L.I.D 634 L.I.D 635 L.I.D 635 L.I.D 666 L.I.D 666 L.I.D 667 L.I.D 668 L.I.D 669 L.I.D 679 L.I.D 689 L.I.D	24,936 745 933 2,646 62,257 65 1,419 2,554 817 3,756 760 1,105 615 497 1,616 677 82 186 568	17,174 492 631 2,210 1,562 915 1,826 509 3,502 136 314 160 161 1,327 350 33 111 239 14 146 66	708 L.I.D. 709 L.I.D. 710 L.I.D. 730 L.I.D. 731 L.I.D. 732 L.I.D. 733 L.I.D. 734 L.I.D. 735 L.I.D. 736 L.I.D.	25 42, 78 175 363 578 504 149 147 41 23 414 1,333 1,101 503 24 141 141 648 2,408 10 215 891 477	28 111 300 422 307 22 32 277 566 393 58 1 54 307 1,061 99 228 208
ferritorial Units 632, 661	1,568 117 362 938	3 1,398 1,064 933 131	Indian Reserves Towns Grouard Peace River Villages Falher	$egin{array}{c} 47\\ 909\\ 1,125\\ 261\\ 864\\ 253\\ 253\\ \end{array}$	843 930 348 582
Division No. 14: Sturgeon 576 Smoky Lake 577 Unity 578 Opal 579 Hazelwood 580 Lockerbie	39,508 4,268 4,919 3,286 3,438	29,062 4,161 4,019 2,924 2,958	Division No. 16: Peace River 739 Grande Prairie 740 Bear Lake 741 L.I.D. L.I.D. 742 L.I.D. L.I.D. 770 L.I.D. L.I.D.	2,389 2,683 1,566 460 514	11,352 1,274 1,802 638 167 82 236

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1931 AND 1926—Continued

Consus	nsus Divisions and		lation	Census Divisions and	Popul	ation
	nicipalities	1931	1926	Municipalities	1931	1926
Division N	o. 16—Continued:			Division No. 16—Continued:	1	
771 L.I.D.		1,730	775	917 L.I.D	298	
772 L.I.D.		1,358	340	919 L.I.D	24	15
797 L.I.D.		549	108	Unorganized parts	72	
800 L.I.D.	***************************************	296	77	Indian Reserves	1,068	20
301 L.I.D.		167	18.5	Towns	1,464	91
27 L.I.D.	******	161	3	Grande Prairie	1,464	91
28 L.I.D.	***************************************	381	149	Villages	1,715	24
29 Spirit	River	1,800	893	Beaver Lodge	211	
30 L.I.D.		738	77	Clairmont	110	7
31 L.I.D.		487	34	Fairview	260	
57 Peace		1,990	1,377	Grimshaw	137	
58 Fairvie	ew	2,264	1,507	Hythe	278	
		519	84	Sexsmith	304	
		508	150	Spirit River	232	16
	***************************************	525	160	Wembley	183	
88 L.I.D.		581	31			
		425	29	Division No. 17: Athabasca	5,788	4,84
		34		Remainder of the Province		
91 L.I.D.	***************************************	77		comprising Northern		
16 L.I.D.		231		parts	4,312	3,04
				Indian Reserves	1,476	1,79

DIVISIONS. CITIES AND TOWNS OF 1,000 POPULATION AND OVER 1932

							DI	DEATHS						
Divisions, Cities and Towns	(Excl	Births (Exclusive of births)	E Still-		All Ages		Under 1 year	nder	1-4 y	years	5 years and over	ears	sdtti	នគនិម
	Total	M.	দ	Total	M.	됴	M.	ᅜ	M.	E.	M.	됴	:qiiiəs	irrs M
TOTAL FOR THE PROVINCE	16990	8713	8277	5521	3248	2273	593	404	143	106	2512	1763	481	5054
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No. 9	405					47	16	10	00 ru	01 9	77	1001	10	400
Division No. 10	3233	-				501	119	99	24	23	552	412	107	1330
No. 1	362					255	14	6			22	15	12	4 1
Division No. 13	828					124	4 2 4 2	3.5	107	10 5	100	80	220	205
No. 1	496					00 t	27	10	010	eo 14	023	31	18	95
Division No. 15	203					26	200	11	9) L-	29	7 00	01	35
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Edmonton	526	261	265	197	112	00 00 00 10 00 10	16	2001	- [- (22	800	650	000	184
Medicine Hat Red Deer	80 80 80 80 80 80 80 80 80 80 80 80 80 8				35	2021	11	1	7	¬ ::	302	20	N 00	L 1 − ∞ 1 − ∞
Wetaskiwin	108				19	18	23	7		7	16	14	4	0.0
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Cardston		c [-	80	200	224	9 00	27 TO	4 01	⊣ :	→ :	12	217	27 4	10 F

TABLE 1 .-- GENERAL SUMMARY OF BIRTHS, MARRIAGES AND DEATHS IN DIVISIONS, CITIES AND TOWNS OF 1,000 POPULATION AND OVER, 1932—Continued

TABLE No. 2—BIRTHS (EXCLUSIVE OF STILL BIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, 1932

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IABLE 2.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) BY MONTHS, CLASSIFIED AS RURAL AND URBAN, BY DIVISIONS, 1932—Continued

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	Total	2822 754 2068 1726 260 82	835 7449 86 86	1303 705 705 94 108 112 135 681	405	1398 1108 290 173 117	3235 854 2381 2320 15
		DIVISION No. 6—CALGARY Rural Urban City of Calgary Drumheller Town of Olds	DIVISION No. 7—BATTLE RIVER Rural Urban Town of Wainwright	DIVISION No. 8—RED DEER Rural Urban City of Red Deer Wetaskiwin Town of Camrose Innisfail Lacombe Stettler	DIVISION No. 9—ROCKY MOUNTAIN HOUSE	DIVISION No. 10—VICTORIA Rural Urban Town of Vegreville Vermilion	DIVISION No. 11—EDMONTON Rural Urban City of Edmonton Town of Beverly Fort Saskatchwan

41 25 23 22 38 41 35 31 17 20 16 32 31 32 10 8 3 6 6 10 3 10 8 6 6 10 3	61 50 75 88 73 76 72 61 50 75 88 73 76 72	105 88 85 96 105 94 96 1 105 88 85 96 105 94 96 1	34 40 38 43 34 49 35 34 40 38 43 34 49 35	59 64 69 63 78 64 74 58 60 48 56 56 52 59 49 58 46 54 11 8 13 11 19 15 16 12 6	18 16 12 13 11 20 19 18 16 12 13 11 20 19
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DIVISION No. 12—EDSON Rural Urban Town of Edson	DIVISION No. 13—BEAVER RIVER Rural	DIVISION No. 14—STURGEON	DIVISION No. 15—CLEARWATER Rural	DIVISION No. 16—PEACE RIVER Rural Urban Town of Grande Prairie	DIVISION No. 17—ATHABASCA

TABLE 3.—BIRTHS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE FOR THE PROVINCE AND IN CITIES OF 5,000 POPULATION AND OVER, 1932

	Total	Birth	ns	Leg	itima	te	Illeg	itima 	te
Province and Cities	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	16990	8713	8277	16385	8409	7976	605	304	301
Cities:								Ì	
Calgary	1726	921	805	1619	871	748	107	50	57
Edmonton	2320	1161	1159	2073	1036	1037	247	125	122
Lethbridge	526	261	265	515	256	259	11	5	6
Medicine Hat	. 358	184	174	353	181	172	5	3	2

TABLE 4.—PLURAL BIRTHS CLASSIFIED TO SHOW THE NUMBER OF CHILDREN BORN ALIVE AND STILLBORN BY SEX, 1932

Classification of Births	Total
CASES OF TWINS	233
The males (both living)	61
One male and one female (both living)	71
Two females (both living)	14
One male living and one male stillborn	5 2 6 3 2 2
One male living and one female stillborn	6
One male stillborn and one female living	. 3
Two males (both stillborn)	2
One male and one female (both stillborn)	2
Two females (both stillborn)	3
CASES OF TRIPLETS	3
Three males (all living)	
Three Temates (all IIVIIIg)	_
Fotal multiple birthsNumber	475
Male	232
Female	243
Total single living birthsNumber	16545
Male	8498
Female	8047
N	451
Total single stillbirthsNumber	262
Female Female	189
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Fotal confinements	17232

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	Canada British Isles	P.E. Island Nova Scotia New Brunswick Ontario Alberta British Columbia Prov. not Specified British British Columbia Prov. not Specified Males Belgium Males Columbia Prov. not Specified British Prov. not Specified Treland Males Belgium Males Columbia Prov. not Specified British Finland Finland Germany Finland Germany Formany Joher Joh

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Total	0.000000000000000000000000000000000000	16,385	605	16,990
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	Serb and Croat	1 1 2 1 1 2 1 1 2 1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Russian	111 122 23 22 23 24 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25
	Roumanian	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Polish	25 4 1 1 1 1 1 1 1 1 1
	Norwegian	88 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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ACL	Finnish	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	RACIAL, ORIGIN OF MOTHER	Welsh Austrian Bulgarian Chinese Caech and Slovak Dutch Hindu Hindu Hindu Hindu Italian Italia	Welsh Welsh Welsh Welsh Welsh Welsh Bulgarian Czech and Slovak S

TABLE 8-TOTAL BIRTHS (EXCLUSIVE OF STILLBIRTHS) AND BIRTHS IN PUBLIC INSTITUTIONS SHOWING THE NUM-BER OF MOTHERS NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1932

	All	All Births	In Public	In Public Institutions
	Total	Births to Mothers Non-resident in Province	Total	Births to Mothers Non-resident in Province
Total for the Province	16,990	126	8,031	94

TABLE 9-BIRTHS (EXCLUSIVE OF STILTBIRTHS) TO RESIDENT AND NON-RESIDENT MOTHERS AND BIRTHS IN PUBLIC INSTITUTIONS IN CITIES OF 5,000 POPULATION AND OVER, 1932

Public	resident in City where birth occurred and	Non-resident in Province	0100 4
where than in Institutions	To Motresiden	Resident in Province	2 3. 2 2. 2 2.
Births elsewhere than Institutions	qeut	To Resi	331 211 69 48
Births		Total	60 4 60 4 60 60 60 60 60 60 60 60 60 60 60 60 60 6
tions	To Mothers Non- resident in City where birth occurred and	Non-resi- dent in Province	11 40 2 13
Births in Public Institutions	To Moth resident where occurs	Resident in Province	249 702 249 144
ths in Pu	quəț	To Residence	1113 1333 197 127
Bir		Total	1373 2075 2448 284
	To Mothers Non- resident in City where birth occurred and	Non-resi- dent in Province	133 433 17
Births	To Moth resident where	Resident in Province	269 733 258 166
A11	1uə _l	To Resid	1444 1544 266 175
		IstoT	1726 2320 526 358
	Cities		Calgary Edmonton Lethbridge Medicine Hat

TABLE 10-ORDER OF BIRTH OF LEGITIMATE CHILDREN BORN IN 1932 (INCLUDING STILLBORN CHILDREN), BY AGE OF MOTHER

	Age not stated	2 1810
	45 years and over	100000000000000000000000000000000000000
	40-44 years	00 00 00 00 00 00 00 00 00 00 00 00 00
	35-39 years	201111222222111 20012222111 20012222111 20000000222111 200000000
	30-34 years	80000000000000000000000000000000000000
	25-29 years	84 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Mother	20-24 years	411 100 10 10 10 10 10 10 10 10 10 10 10 10
ge of	15-19 years	2040 2040 2040 133 333
A	21 years	14430 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1
	18 years	2330 271 1 1 1
	17 years	130
	16 years	248
	15 years	
	Under 15 yrs	
	Total	16884 4 120 4 120 1 2 3 3 3 6 1 3 3 6 1 3 3 6 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Order of birth of Children	Total 1st child 2nd 4th 4th 6th 6th 7th 10th 11th 11th 12th 13th 13th 15th 16th 15th 16th 16th 16th 17th 19th 19th 19th 19th 19th 19th 19th 19
		Total 1st c 2nd 2nd 4th 4th 5th 6th 7th 10th 11th 11th 11th 11th 11th 11th 11

TABLE 11.—INFANTILE DEATH RATES, ETC., BY DIVISIONS AND CITIES, 1932

	Death rate 1 year o	e of childrer of age to e	children under ge to each births	Births with	with or without ian in attendance	out a	Rate of children 1000	stillborn to each births
Divisions and Cities	Rate per 1000 births	Number of deaths	adtrid latoT	di W asioisydd	tuodti W nsisisydq	Not stated	Number of stillbirths	Rate per adraid 0001
ninisian No 1—Modicine Hat (City of Medicine Hat excepted)	39.0	111	282	169	113		12	42.6
No. 2-Macleod (City of Lethbridge excepted)	63.6	 	2027	167	000		2	23.0
No. 3Bow	30.1		426	02100	47		14	32.9
4-Nanton	65.0	21	323	235	80	1	67	6.2
No. 5—Acadia (Cities of Calgary and Drumheller excepted)	73.0	61	836	099	176		9 78	24.0
7—Battle River	44.3	200	1101	0 10	226		401	21.8
No. 8-Red Deer (Cities of Red Deer and Wetaskiwin excepted)	1.00	* 9%	405	306	66		10	24.7
No. 9-Rocky Mountain	57.9	818	1398	826	572	1	30	21.5
Division No. 11—Victoria (City of Edmonton excepted)	F- 1	7.5	915	521	394		21	283.0
No. 12-Edson	63.5	2 00	77 00 CO CO	346	482		3 00	21.7
No. 13-Beaver River	70.4	200	1150	508	641		32	27.8
Sturgeon	92.7	46	496	267	229	1	18	36.3
No. 15—Clearwater	44.7	36	908	467	339	1	16	19.9
Athelesses	93.6	1.9	203	020	153		4.6	19.7
Romenton	48.7	113	2320	70 E	280		000	1.10 8 A 8
of Calgary	49.2	0 00	0771	1 1 2	201		000	34.2
of Lethbridge	0.70	20 t	2 cc 2 rc 2 rc	30 10	0 60	1	1 5	38.0
of Medicine Hat	44.	01	000	600	1		00	85.1
of Red Deer	0.7.8	# 4	108	107	·		4	37.0
Wetaskiwin	0 00 0 00 1.0	10	260	260		l	9	23.1
nheller	63.0		11598	7466	4131		287	. 24.7
P 0 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	49.3	266	5392	5308	84		194	36.0
Whole Province	58.7	997	16990	12774	4215		481	28.3

TABLE 12.—DEATHS OF CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE BY SEX AND CALENDAR MONTH OF DEATH, 1932

		Total 1 y	l under year	ler						MO	MONTH	OF I	DEATH						
	CAUSES OF DEATH	IstoT	Male	Female	January	February	March	lingA	May		əunr	July			September	October		November	December
					M. F.	M. F.	M. F.	M. F.	M.	F. M	E.	M. F	M.	F. M.	F	M.	F.	M. F	. N
ALL CAL 88 8 10 10 11 11 113	CAUSES 7 Measles 8 Scarlet Fever 1 Whooping—cough 1 Influenza 3 Dysentery			404	2 1 34	44 44	64 31	52 1 1 1 3 4 4 4	45	49 1 1 1 2 8	1 30	41 22	4	21 55	19	64 4	1 1 3	58 1 2 4	32 58
	Erysipelas Poliomyelitis and polioencephalitis (acute) Epidemic cerebrospinal meningtis Tuberculosis of the respiratory system Tuberculosis, of the meninges and central nervous system	114 1 1 1 4 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 1	1 6 1		1 4	1 2 1									-	1		
	Syphilis Purulent infection, septicaemia Diseases of the thymus gland Simple meningitis Convulsions Diseases of the ear and mastoid process	14 9 8 0	1	401 400 4							-			- - -					
ಡ	Eroup Bronchitis Bronchopia Proumonia Presses of the buccal cavity and annexa and of the pharvnx and tonsils (inclinity and annexa and of the	10000	48851		1221	200	1 1 1 3 1	4 %	- 01 -	1100				1 2 1 1 2 1	- 21 -	∞ ≈ 1		1 0 0	1 1 8 80
	e stomach enteritis nal obstru		1000	8010	1 2 1	22	1 6 1	3 53	1404	1 4	1 9 1	6 2 1 1 1 1 1		1 4 17	03	1 9 1	10	1 4 1	1 2 1
122	Malformations (a) Congenital hydrocephalus (c) Congenital malformations of the heart (b, d, e) Others under this title	69 83 27 17 12 12	1 4 8 2 9	× 20 00 00 10 00 10 00 10 00 10 10 10 10 10	60 61	4 6	247	22 23	4 0 0	1212	2 2	00 01-	4 0101	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111	9 07 4	14 1-100	10101	18 18

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Congenital debility Premature birth Injury at birth Other diseases peculiar to early infancy (under 3 mont) (a=e) Specified diseases (f) Unspecified causes under 3 months Other external causes Other specified causes Unspecified causes
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Congenital debility Premature birth Injury at birth Other diseases peculiar to early infancy (under 3 mont (a=e) Specified diseases under 3 months (f) Unspecified causes under 3 months Other external causes Other specified causes Unspecified or ill-defined causes
158 160 161 161 173–175 176–198
73-

TABLE 13.—DEATHS OF CHILDREN (EX CLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE,
BY SEX AND AGE AT DEATH, ALBTRTA, 1932

		Total	under									4	AGE	AT D	EAT	H]]
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	CAUSES OF DEATH	Isto	8]6	male	nder 1 da:	day and	der I wee	week and der 2 wee	weeks and	der 3 wee	der I mon	som 2 19b	months an	months an	months an der 5 mos	nonths an	nonths and	nonths an som 8 ust	months an	nonths and	months a	der 11 mc	er il mo
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ALL CAUSES	USES	3 266	593 4	404 13	37 85	116	99	31 2	27 24	21 25	15 44	28	52 36 2	29 24	32 25	29 1	6 14 1	33		4	711		-
[~ ∞	Measles Scarlet fever	20	20	2								=					-		4	1		4	1
10		18	0	6						11		Pred	2 1	2 1	12	12				-	2 1		
13	Influenza . Dysentery	49		25					-	1 2	02	2	12	4	3 6	1-	2		3		1-	2	101
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25-32	Tuberculosis, other forms	10	ec ←	<u>F~</u> →			T			11			2		-		1		-			-	-
989	Purulent infection, septicaemia	4	12	07		-			11			-		-	-								
0.00	Diseases of the thymus gland Simple meningitis	900	2	4 60	-	-	-				-	-	C										
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108, 109	Bronchopneumonia Pneumonia	84	C 00 0	36		127		1	1 2	22.2	1 00	12	5		1		1 1 2 2	1 2 4	16			r	
115	Diseases of the buccal cavity and annexa and of the pharynx and tonsils (including			15		9	-	01			10	22	9 2	3 73	2	4	100	200	1 67	1 00	-	1 1	d
116-118	adenoid vegetations) Diseases of the stomach	23	120	00 0		11	1	1	İ		1				-							- 1	
122	Diarrhoea and enteritis Hernia, intestinal obstruction	119	2000	1 2		-1	-		101	1	3 11	5	5 10	6 4	100	26	9		2 2	00 0	1 3	2	

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	Homerate Other specified causes Unspecified or ill-defined causes
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All Deaths under one year Deaths in Public Institutions	Non-resident in City where death occurred and	Total Residents Resident in Province in Province in Province	Male Total Male Total Male Temale Total Male Temale Temale Total Male Total Male Total	53 32 74 47 27 10 5 5 1 1 5 5 37 22 4 9 31 18 18 40 79 55 24 34 18 16 5 8 5 8 5 8 65 24 21 8 11 10 18 5 8 6 2 6 2 6 7 8 8 7 8 7 11 10 18 18 18 18 18 18 18 18 18 18 18 18 18
7	Cities	To	IstoT	Calgary Edmonton 113 Lethbridge Medicine Hat

TABLE 15.-TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS OF CHILDREN UNDER 1 YEAR OF AGE, SHOWING THE

TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CONTRACTION) OF THE STATES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING INDIA

DIVISION No. 1—MEDICINE HAT

Municipality No. Comparison Violent Deaths (suicides and homicides excepted)	L	49	
Total State of the control of the co			12
1989 1989			31
1000 1000			24
Total Control of the		- 	1
100 100	(under 2 years of age)		12
Content Cont		<u> </u>	31
10th	Diseases of Arteries	0	
101 102 102 103	Heart Diseases (all forms)		73
1.00 1.00	Apopiexy, Cerebrai Haemorrhage & Thrombosis		12
100 100			
100 100	Disbetes		24
Total 1932 1932 1932 1932 1932 1933 1933 1934 1935	Cancer (all forms)	10 11 1 1 3 1 1 1 1 1	61
Total To	(smrot rento) sisoluoreduT		6
Total To	Pulmonary tuberculosis		9
Total To	eitignineM oissosognineM		-
Total 1 103 6 3 3 3 3 3 3 1 3 1 3 2 3 1 3 1 3 3 3 3 3	Acute poliomyelitis		
Total	szneultni	0	37
Total 1000 1	Diphtheria		
Total To	Whooping cough		
Total To	Scarlet fever		
Total. To	Measles		
Total. 16360 Total.	biodqytered bas biodqyT		
Total. 16360 1647 1656 165	Stillbirths		
Total. 1.00		1255 1255 1255 167 167 1034 1034 1034 1037	
Total. Total. Total. Municipality Mo. Municipality Mo. Population, 1932 Total. Total. Municipality Mo. Population, 1932 Total. Total. Total. Municipality Mo. Population, 1932 Total. Total. Total. Municipality Mo. Population Mo. Population Municipality Mo. Population Mo.	(under 1 year)		
Total. 100000 Municipality Mo. Municipality Mo. 1932 Municipality Mo. 1932 Municipality Mo. 1932 Municipality Mo. 1938 Market Market Per 1,000 Municipality Mo. 1938 Market Market Per 1,000 Municipality Municipality Municipality Municipality Munic			
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TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CONTINUED), 1932-TRANSFERRED TO REGULAR RESIDENCE-Continued

DIVISION No. 2 MACLEOD

Violent Deaths (suicides) (suicides) has	- 4 4 -	24	84		
Puerperal State		-	ବର		
Mephritis (acute and chronic)		00	28		
sitisibn9qqA		12	42		
Diarrhoea and Enteritis (over 2 years of age)		2	<u></u>		
Distriboes and Enteritis (under 2 years of age)		ın	17		
(amrol lls) sinomuenq	H 00 00 00 H H 00 H 00 H	20	7.0		
Diseases of Arteries		13	52		
(smrof [ls] sessesid frasH	1 0 1 0 4 4 6 0 0 0 0 0	59	101		
Apoplexy, Cerebral Raemorrhage & Thrombosh		10	35		
Pernicious Ansemia		2	[~		
Diabetes	1-11-111111-111	3	10		TITT
Cancer (all forms)	111 104 00001-01	28	86		1 2 1
Tuberculosis (other forms)		2	ţ-		7111
Pulmonary tuberculosis		n.	17	ER	
Meningococcic Meningitia	-!!!!!!!!!!!!!!	T		RIVER	
sitileymoilog etueA		1	T	BOW	
Influenza	111111111111111111111111111111111111111	14	8	3	
Diphtheria		-	3	No	
Whooping cough		2	1	NO	
Scarlet fever		-	3	DIVISION	
Measles		-	3	DI	
biodqytsrsq bas biodqyT		-	0		
Stillbirths	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	26			
Infant Mortality Rate per 1,000 births	1	29.0			200
Number of Deaths (under 1 year)	010000004 1-1-00 001	55			1120
Death Rate per 1,000	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.0			F 4 3 rc
Number of Deaths	8 2088 8040144 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	287	on		102
Birth Rate per 1,000 population	232444722 22424242424242424242424242424242	33.2	population		15 64 9
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VITAL STATISTICS BRANCH

TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY MUNICIPALITIES (EXCLUDING CITIES), 1932-TRANSFERRED TO REGULAR RESIDENCE-Continued

DIVISION No. 5-ACADIA

and homicides excepted)	- - -	ינו	77
Violent Deaths (suicides		-	4
Puerperal State		9 1	67
Mephritis (acute and			7 67
			N
Diarrhoea and Enteritis (over 2 years of age)			
Diarrhoea and Enteritis (under 2 years of age)			7.7
(smrof lls) sinomusaq	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	-
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Heart Diseases (all forms)		10	42
Apoplexy, Cerebral Haemorrhage & Thrombosis		N	∞
Pernicious Anaemia			I
Diabetes		2	00
		6	200
Cancer (all forms)		2	∞
Tuberculosis (other forms)		00	34
Pulmonary tuberculosis			1
Meningococcic Meningitis			1
Acute poliomyelitis			
asaneniini	1-11111-111-111-000	6	200
Diphtheria			4
Whooping cough			
Scarlet fever			4
səlssəM			
biodqytsraq bas biodqyT	11111111111111111111111111111	4	
Stillbirths			
Infant Mortality Rate shrift 000,1 rage	167 150 150 250 260 260 655 877	51.3	
Number of Deaths (under 1 year)		21	
Death Rate per 1,000 population	12 000 12 12 13 13 15 15 15 15 15 15	5.0	
Number of Deaths	L0 00 L 10 L 4 4 4 0 L 0 10 4 0 0 L	118	on
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Birth Rate per 1,000	N 1	17.9	dod
Number of Births	4 9 0 0 9 4 8 8 8 1 4 0 0 1 4 4 9 0 0 0 9 4 8 8 8 1 4 0 0 0 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0	421	per 100,000 population
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MUNICIPALITIES (EXCLUDING TABLE 16-POPULATION, BIRTHS, DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), BY CITIES), 1982-TRANSFERRED TO REGULAR RESIDENCE-Continued

DIVISION No. 7-BATTLE RIVER-Continued

VITAL S	STATISTI	CS	BF	RAN	CH
Violent Deaths (suicides has being based)	1 1	17	54		- - 40- 8-4 -
Puerperal State		1	22		1 1 1 1 1 1 1
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Appendicitis Appendicitis	11121	7	22		
Distributes and Enteritis (over 2 years of age)		-	- es		
(under 2 years of age)		12	9		
Pneumonia (all forms) Diarrhoea and Enteritis		17	54		0 H L 00 L L 01 L 01 00
Diseases of Arteries		17	5.4		010100000100 1 4411 10
Heart Diseases (all forms)	w 401	40	27		- wyyw4 cory I
Apoplexy, Cerebral Haemorrhage & Thrombosis		(2)	101		- 0 - -
Pernicious Angemia		-	00		
Disbetes		2	- 9		
Cancer (all forms)	2 22 23	23	00 E-		
Tuberculosis (other forms)		20	16		
Pulmonary tuberculosis		7	22	×	
Meningococcic Meningitis				DEER	
Acute poliomyelitis		<u> </u>		RED	
rzuənıju		22	7.0	8	
Diphtheria				No.	
Whooping cough				DIVISION	
Scarlet fever				VIS	
				DI	
Measles					
biodqytsraq bas biodqyT			1		
Stillbirths	40111	22			2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Infant Mortality Rate per 1,000 births	68 19 48	47.1			10488 0 0 0 0 0 0 0 0 0
Number of Deaths (under 1 year)	TO → 00	38			2114 0 101112084110
Death Rate per 1,000 population	F F 10 F 61	8.4			1120 1132 1132 1133 1133 1133 1133 1133
Number of Deaths	12 12 14 14 26	263	ion		1 01000 10400 6 150461460894604
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Birth Rate per 1,000	6432	9	- 1		800041011018000
Number of Births		81	100,000		89799887841-891-
Population, 1932	1726 1505 1256 1972 2202	31391	per 1		11
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Total 45107 1104 24.5 401 8.9 55 51.5 31 ———————————————————————————————————	10000	26	5.7	CKY	80	10	523	- 11	
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Total Rate per 100,000 population. Death Rate per 100,000 population.		II				T	_	ISIO	
Death Rate per 100,000 population. Total. 1813 2 6 1 6 6 8 6 6 8 8 2 6 1 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		1 1						DIV	
Death Rate per 100,000 population. Total. 1813 2 6 1 6 6 8 6 6 8 8 2 6 1 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				VISIC					
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Total. 1017 86 85 85 85 85 85 85 85 85 85 85 85 85 85	51 52 52 52 53	1 -2			273 273 167 167 167 167	6.0			167 91 87 20 20 21 77
Total Bate per 100,000 population. Death Rate per 100,000 population. 12	00 ro co	l m							w - 4 0 0 m
Total Bate per 100,000 population Death Rate per 100,000 population beat Rate Per 100,000 populatio									1000001
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(EXCLUDING MUNICIPALITIES BY (EXCLUDING INDIANS), RESIDENCE—Continued RATES AND SELECTED CAUSES OF DEATH CITIES), 1932—TRANSFERRED TO REGULAR TABLE 16-POPULATION, BIRTHS, DEATHS,

20 Violent Deaths (suicides and homicides excepted) Puerperal State 11 (pinordo (acute and Nephritis 1 13 Appendicitis Distributes and Enteritis (over 2 years of age) 14 Diarrhoea and Enteritis (under 2 years of age) 46 24 Pneumonia (all forms) 13 Diseases of Arteries 00 10 1-00 00 00 86 100 1 4 00 01 11 51 Heart Diseases (all forms) Apoplexy, Cerebral Haemorrhage & Thrombesis Pernicious Anaemia Diabetes 09 31 Cancer (all forms) 00 10-VICTORIA-Continued Tuberculosis (other forms) 13 11—EDMONTON Pulmonary tuberculosis Meningococciic Meningitis Acute poliomyelitis 19 Ezneulini So. N Diphtheria DIVISION So. Whooping cough DIVISION Scarlet fever Measles Typhoid and paratyphoid 10414040 8004114001 H 34 Stillbirths Infant Mortality shrift of the state of the 00011000 00000 51 Rate Number of Deaths (under 1 year) 78 6.9 00108246865 Death Rate per 1,000 population 324224510 362 Number of Deaths population 29.4 Birth Rate per 1,000 population 7448688769878 744868769878 100.000 1525 Number of Births 51930 3566 2966 1506 1373 Population, 1932 per Rate Total. Death Municipality No.

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MUNICIPALITIES (EXCLUDING BY (EXCLUDING INDIANS), RESIDENCE—Continued AND SELECTED CAUSES OF DEATH 1932—TRANSFERRED TO REGULAR RATES A DEATHS, 16-POPULATION, BIRTHS, TABLE

Violent Deaths (suicides and homicides excepted) Puerperal State (sinords (acute and Nephritis 0100 01 Appendicitis Diarrhoea and Enteritis (over 2 years of age) 00 Distriboes and Enteritis (under 2 years of age) 12 03 03 03 14 61 Pneumonia (all forms) 212 10 Diseases of Arteries 101101 12 Heart Diseases (all forms) 1011 Apoplexy, Cerebral Haemorrhage & Thrombosis Pernicious Anaemia Disbetes Cancer (all forms) N 6 Tuberculosis (other forms) 14—STURGEON 31 Pulmonary tuberculosis RIVER-Meningococcie Meningitis Acute poliomyelitis 13—BEAVER 107 Ezneulini So. Diphtheria DIVISION Ò 6 Whooping cough No. Scarlet fever DIVISION Typhoid and paratyphoid 15 Stillbirths 986 72.7 Infant Mortality Rate per 1,000 births 50 Number of Deaths 9.9 Death Rate per population 2000 150 Number of Deaths population 30.3 population Birth Rate per 1,000 688 100,000 Number of Births 22714 Population, 1932 Rate Total Death Municipality ·oN

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VITAL STATISTICS BRANCH

MUNICIPALITIES (EXCLUDING BY DEATHS, RATES AND SELECTED CAUSES OF DEATH (EXCLUDING INDIANS), CITIES), 1932—TRANSFERRED TO REGULAR RESIDENCE—Continued BIRTHS, 16-POPULATION, TABLE

-Continued

98 10 Violent Deaths (suicides and homicides excepted) Puerperal State 4 (pinondo (acute and Nephritis Appenditicis 6 Diarrhoea and Enteritis (over 2 years of age) Distriboes and Enteritis (under 2 years of age) Pneumonia (all forms) 26 Diseases of Arteries 43 Heart Diseases (all forms) Apoplexy, Cerebral Haemorrhage & Thrombosis Pernicious Anaemia Diabetes 35 Cancer (all forms) 6 Tuberculosis (other forms) N RIVER Pulmonary tuberculosis 15—CLEARWATER-Meningococcic Meningitis -PEACE Acute poliomyelitis 4 zuənıjuı 16 Diphtheria No. Whooping cough DIVISION °S Scarlet fever DIVISION Measles biodqytsisq bas biodqyT 13 Stillbirths 10000 57.1 Infant Mortality shrift of the 09 23 1 2251 Number of Deaths (under 1 year) 804980108 9.9 Death Rate per 1,000 population 76 1231 1534 population Number of deaths 35.6 Birth Rate per 1,000 population 25 41 11 25 5 8 7 14 7 14 7 14 7 100.000 412 16 16 20 36 56 Number of Births 11573 per Population, 1932 Rate Total. Death Municipality No.

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\$4114885148 8	32.2	population		88.8	population		19.8 65 population	17.4 64 population	27.1 24 population	19.9 119 population.	17.5 83 population	19.9 44 population.	23.8 28 population
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		VIT	AL STA	ATISTICS BRANCH
1	Over 100 yrs.	2 - 3	- -	
-	95-99 years	10	- -	
	90-94 years	40 21 19	8 - 8	10112212
	85-89 years	35	14	
	80-84 years	54	1224	100100000000000000000000000000000000000
	75-79 years	342 2 193 1 149 1	12 12 15	
	70-74 years	483 3 285 1 198 1	41 24 17	
	65-69 years	417 272 145	36	1112 112 22 22 1 4 88
	60-64 years	353 4 221 2 132 1	24 20 4	100 100 100 100 100 100 100 100 100 100
	55-59 years	293 3 185 2 108 1	36	
	50-54 years	311 2 205 1 106 1	37 27 10	
	45-49 years	287 3 183 2 104 1	38	1
GES	40-44 years	231 122 109 1	35 22 13	
AG	85-39 years	91 1 883 1	41 24 17	1
	30-34 years	54 1 72	41 21 20	2
	25-29 years	70 1 92 78	52 28 24	1
	20-24 years	92 83	59 29 30	11
	15-19 years	90 81	333	
		16 65 51	44 25 19	1
	10-14 years	35 11 578 6	49	
	5-9 years	31 13	0 4 ro	
	4 years	41 25 1 26	411	
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	CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES.	1 Typhoid fever 5 Undulant fever 6 Smallpox 7 Measles 8 Scarlet fever 9 Whooping-cough 10 Diphtheria 11 Influenza (a) Sole cause (b) With bronchitis (c) With pneumonia (d) With other respiratory diseases (e) With intestinal complications (f) With other causes
		DEA	CLA	
		-		

Over 100 yrs.

VITAL STATISTICS BRANCH

TABLE 17.—CAUSES O DEATH or parasitic diseases	Nale Female Nale Female Male Male Female Female Female	
TABLE 17.—CAUSES OF DE (a) Chicken-pox	Of the lung . Of the mediast Of the uterus	Of the cervix uteri

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Cancer of the breast	e gland	eye and orbit circulatory system glandular system female urinary organs	Of the bones and joints	Multiple cancer	other female genital organsthe brain the thyroid gland
Cancer of the breast (a) Of the bladder (b) Of the kidney	(c) Of the prostate gland (d) Of the testicle	Cancer of the skin		(k) Multiple cancer	(c) Of other female genii (d) Of the brain (e) Of the thyroid gland
50 Ca51 (a(b)	3 3	52 Ca 53 (a (b (c		54 N 55	

TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1932—Continued

		VITAL S'	TATIS	STICS	S BR	ANC	CH						
	Over 100 yrs.			111				11		11		11	
-	95-99 years	TITTE											
	90-94 years		TIT	TII				11	111	11		11	
-	85-89 years		NIN	TIT	- -	III	1	11	11	TI		11	
	80-84 years		115	111		111		11	8	T			11
	75-79 years		8-8	111				T					
	70-74 years		800	1 67	199	111		-	11-	11	IT		
	65-69 years		2-0		1 10		1 1	1	11-				
	80-64 years		12		H 10 00	III		10	1 2	11		TT	TT
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	50-54 years		1174		0 4	TTT	10	1 -	-			TT	
	45-49 years	2 1	200			III				II			
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	30-34 years		1000	11-	2			2	- -	11			
	25-29 years		400		111		-		-				
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	5-9 years		2-4	-			-			11			
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		fied tes,	OF INE ES					otal					:
		Of other or unspecified sites	I.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	Acute rheumatic fever			of the thyroid and parathyroid	Tot				Others under this title	
		ot s	EAS ND(DIS)		:		oid						
		s	DIS		Chronic rheumatism, osteo-arthritis Diabetes mellitus		Diseases of the thyroid and parathyroid						
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	CAUSES OF DEATH	ied n, r	ASE J SEN		eo-8	:	nd r		:			tle .	glaı
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		(a) (b) (a)	NC.	Acu	Chronic rheumatis Diabetes mellitus	Scurvy	Lickets	(a)	(P)	(c)	(p)	(e)	Diseases of the thymus gland
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			CLASS III.—RHEUMATIC DISEASES, DISEASES OF Total NUTRITION AND OF THE ENDOCRINE Male GLANDS AND OTHER GENERAL DISEASES Female										
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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1932-Continued

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	Under 1 yr.	
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	75-79 years	1 1 1 1		4 4	17	
	70-74 years	118	T	1 67	32 18 14	1
	65-69 years	10 10 110		95	208	
	60-64 years	111		1 20 01	118	
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		rosis (of coronary arteries excepted)	phlebitis, etc.)	lymphatic system (lymphan-malities of blood pressure	>=	the nasal fossae and annexa diseases of the larynx itis, acute itis, chronic itis, unspecified opneumonia ry bronchitis
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CAUSES OF DEATH		es	naer	n (pre	ZAT	uua
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		Arteriosclerosis (of coronary arteries excepted) Gangrene	Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	Diseases of the lymphatic system (lymphar gitis, etc.) Idiopathic abnormalities of blood pressure	III.—DISEASES OF	Diseases of the nasal fossae and annexa (a) Croup (b) Other diseases of the larynx (c) Bronchitis, acute (d) Bronchitis, unspecified (e) Bronchopneumonia (f) Capillary bronchitis
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r pneumonia monia, not specified estion and haemorrhagic infarct of the lung ma nonary emphysema Chronic interstitial pneumonia including occupational diseases of the respiratory system Gangrene of the lung Other diseases of the respiratory system (tuberculosis excepted)	SEA	Diseases of the buccal cavity an Diseases of the tonsils
Lobar pneumonia Pleurisy Congestion and haemorrhagic infarct of the lung Asthma Pulmonary emphysema Pulmonary emphysema occupational diseases of the respiratory system (b) Gangrene of the lung (c) Other diseases of the respiratory system (tuberculosis excepted)	IQ-	(a) Diseases of the buccal cavity and annexa (b) Diseases of the tonsils
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		(b) Intestinal obstruction	of the liver, not specified as rophy of the liver		Other diseases of the gall-bladder and biliary passages Diseases of the pancreas Peritonitis, cause not specified	-DISEASE OF THE GENITO-URINARY SYSTEM Acute nephritis (including unspecified, under 10	nic nephritis nitis not specified (10 years and over) r diseases of the kidneys and annexa
		(b) Intestinal obstruction	(b) Cirrhosis of the liver, not specified alcoholic	(b) Other diseases of the liver	Other diseases of the gall-bladder and biliary passages Diseases of the pancreas Peritonitis, cause not specified	-DISEASE OF THE GENITO-URINARY SYSTEM Acute nephritis (including unspecified, under	Chronic nephritis Nephritis not specified (10 years and over) Other diseases of the kidneys and annexa
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Diseases of the bladder (tumours excepted)	—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	(a) Abortion without mention of septic conditions (haemorrhage included)	(a) Placenta praevia	bosis alba dolens and bosis eral embolism ean section ean delivery est of THE SKIN AND CELLULAR
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seas seas b D	A (9	(a) Placenta praevia. (b) Other puerperal heuerperal septicaemia quent upon abortic Puerperal albuminuria	(a) Puerperal phlegmasia thrombosis
	CLASS XI.—DISEASES OF PREGNANCY, AND THE PUERPERAL STATE 140 (a) Abortion with septic conditio (b) Self-induced abortion with se	(a) (a) Otho		E
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TABLE 17.—CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1932—Continued

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	35-39 years	1					111					
	30-34 years						111					1, 1
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		Male Female		Total Male Female	Male Female	Male Female	Total Male Female .	Male Female Male	Male Female Male	Female Male Female	Total Male Female	Male Female
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	CAUSES OF DEATH	acu	ase	MO	tis	ase)	Z	nita bifj	nita	un	ES	del
	Ö	is,	r diseases of the skin and annexa and of the cellular tissue	SEA	yeli	r disease of the bones (tuberculosis excepted)	S	Congenital hydrocephalusSpina bifida and meningocele	Congenital malformations of the Monstrosities	Others under this title	EAS	tal
		Cellulitis, acute abscess	er	LO	Osteomyelitis	Other diseases of the bones (tuberculosis excepted)	00-		Con	Oth	DIS	Congenital debility
		Cell	Oth	11 0F	Ost	Oth	>	(a) (b)	(e)	(e)	Ţ	Jong
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		152	10	CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total	154	155	CLASS XIV.—CONGENITAL MALFORMATIONS	10			SS	128
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ry at birth Total With record of caesarean operation	ZIL	With senile dementia	OLE		de by solid or liquid poisons tion of corrosive substances de by poisonous gas
natu wit wit with with with with with with w	SEI		-VI	Suicides	Suicide by solid or liquid poisons or by absorption of corrosive substances
Premature birth Total Femal Femal Injury at birth Total Femal Injury at birth Total Femal (a) With record of caesarean operation Femal Other diseases peculiar to early infancy (under Femal 3 months) Total Femal (b) Icterus of the new-born Femal Male (c) Sclerema and oedema Male (d) Athrepsia Male (e) Others, including lack of care Femal Male (f) Unspecified causes Male Femal Male (f) Unspecified causes	CLASS XVI.—SENILITY	(a) (b)	XVII.—VIOLENT OR ACCIDENTAL DEATHS	Suic	Suic Suic Suic
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160 161	ASS	H	CLASS	163-171	H H H
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TABLE 17.-CAUSES OF DEATH BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1932-Continued

		VITAL STATISTICS BRANCH
	Over 100 yrs.	
	95-99 years	
	90-94 years	
	85-89 years	
	80-84 years	
	75-79 years	1
	70-74 years	1
	65-69 years	α
	60-64 years	2
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	50-54 years	
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	Under 1 yr.	
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	CAUSES OF DEATH	Suicide by firearms Suicide by cutting or piercing instruments Suicide by jumping from high places Suicide by other means Homicide of persons one year of age and over by firearms Homicide of persons one year of age and over by cutting or piercing instruments Homicide by other means Homicide by other means Accidental absorption of toxic gases Other violent deaths Accidental burns (conflagration excepted) Accidental mechanical suffocation Accidental injury by firearms Accidental injury by cutting or piercing instruments ments
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Accidental injuries resulting from crushing or landslide	VIII—ILL-DEFINED CAUSES C Sudden death	lents ay t ca mob lar r tr
Accident Injury Injury Exce Exce Exce Ligh Accident (a) (b) Viole Capi	Sud	Accidents in mines and quarries Accidents caused by machines. Railway accidents
186 190 191 193 194 195	ASS XVIII—ILL-DEFINED CAUSES OF 199 Sudden death	H H H
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CAUSES OF DEATH		TstoT	Under 15 yrs.	15-24 years		45-64 years	and over Not Stated	15-24 years	25-44 years	45-64 years	gnd over	bewobi W	Canada	Asitial	.A.2.U	Others	Not Stated
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CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	871 512 359	287 161 126	100 61 39	52 40 12	233	808	21	110 53	99	67 47 20	88 89 89	562 319 243	120 71 49	54 30 24	133 90 43	100
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9 Whooping-cough	:	16	190				1 1	1 1					190			1	
10 Diphtheria	Male	000	1	-				1					000				1
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(e) With intestinal complications	Male	16	123	1		-						1-1	170 4	7 7 7		* -	disputation in the second
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	(b) Of the cervix uteri	Female	15		T	T	T	T	-	-		9		9	eo	eo	~		T
49	Cancer of other female genital organs	Female Male Female	111			111	1 00			116	1 25	10 01	21 ∞	16	11 3	2 4	m 01		1 1 1
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	(b) Of the kidney	Male	4	-	Ï									7					
	(c) Of the prostate gland	Male	2.2			1		7	-	- 2	್ 	10	70	14	4	ಣ			,
	(d) Of the testicle	Male	4			1	-	-	- <u> </u>						22				1
	(e) Of other male genito-urinary organs	Male				1	1	1		-	-								,
52	Cancer of the skin	Male	9 7	1	-		T	-			2			22			ବର ବ		1
50	(a) Of the eye and orbit		K			1				*	-		1	===			-		
	(b) Of the circulatory system	Male		1.1					 		T								1 1
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	(d) Of the female urinary organs	Female	150	00					 		27 4		L 4	10	2	-	n 00	11	1 1
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	(i) Of other specified organs	Male	1 4 rc		-	-	-		1		- 60	- 0	-	121	°				1 1
	(k) Multiple cancer	Male	-		1	1		1	1				1	· · · ·		 	-		
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	(c) Of other female genital organs	Female Male Female	170 4	07		<u> </u>					1 1 1	-	-		1 1				1 1 1

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	(e) Of the thyroid gland	Male Female		11	- $ -$												
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	(g) Of other or unspecified sites	Male	4	TT		TT	7		 	'	-		TT	27		7 7	7 7
55	(d) Tumours of the brain, nature not specified	Male	m -0			11	II		TI	2 2 2	00		11	7 01	200	-	
	(g) Tumours of other or unspecified sites, nature not specified	Male Female					-TI		-				1				
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56	Acute rheumatic fever	Male Female	7	4 70	- m co									9 6.	9 6 1		
52	Chronic rheumatism, osteo-arthritis	Male	473		11		<u> </u>		 			c1	<u>~</u> ∽	1 2		7 7	
59	Diabetes mellitus	Male	27	01 ro	ಣ ಣ		11	27 27		1 1	2 12	20 EQ	112	10		111	111
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	(c) Softening of the brainF	Malc Female	11		11	11	II				'			*		0		1
	(d) Hemiplegia and other paralysis, cause not specified	Male Female	15	11	П	11	"	7			1010	9	19-	+ ∞ c	1010			1200
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00 10	EpilepsyF	Male Female	m 0 1	NHI	N 61	70 	7	NI			1.1	22	-) W [-		101		- 1
98	Convulsions (under 5 years of age)	Male Female	- 70	-10												"		10
E-00	Other diseases of the nervous systemTotal $ \mathbf{F} $	Male Female	12	3 -		11	-	H		1 1		0 -	7 -					4 I
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TABLE 18.--CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE, 1932--Continued

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(b) Capillary bronchitis 108 Lobar pneumonia 109 Pneumonia, not specified 110 Pleurisy 111 Congestion and haemorrhagic infarct of the lung, etc 112 Asthma 113 Pulmonary emphysema 114 (a) Chronic interstitial pneumonia including occupational diseases of the respiratory system (tuberculosis excepted) (b) Gangrene of the lung (c) Other diseases of the buccal cavity and annexa 115 (a) Diseases of the tonsils (b) Diseases of the esophagus 116 Diseases of the stomach 117 (a) Ulcer of the stomach	(b) Ulcer of the duodenum Other diseases of the stomach Diarrhoea and enteritis (under 2 years of age) (a) Diarrhoea and enteritis (2 years and over) (b) Ulceration of the intestines (2 years and over) Appendicitis (a) Hernia
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1932—Continued TABLE 18.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITIONS AND NATIVITY, FOR THE WHOLE PROVINCE.

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CLASS XII.—DISEASES OF DEATH 152 Quiter diseases of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the skin and annexa and of the cellular finance of the keart. CLASS XIV.—CONGENITAL MALFORMATIONS Total (a) Monatosities (b) Others under this title (c) Congenital malformations of the heart. (d) Monatosities (e) Others under this title (e) Others under this title (f) Monatosities (g) Others under this title (h) Monatosities (h) Others under this title (h) Monatosities (h) Monatosities (h) Others under this title (h) Others under this title (h) Monatosities (h) Others under this title (h) Other							Con	Conjugal	Condition	ition						Nativity	ity	
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AND ORGANS OF Total Male	CAUSES OF DEATH		IstoT	Under 15 yr	15-24 years	25-44 years		sud over	15-24 years	25-44 years	45-64 years	65 years	b9wobiW	Canada	British	.A 2.U	Отрел	Not Stated
AND ORGANS OF Total	Cellulitis, acute abscess	ale	4 80	7				11	1	1 60	67		11	107	27	1		
AND ORGANS OF Total 16 10 3 3 - 11	Other diseases of the skin and annexa and of the cellular tissue		eo 10	- rc			-	11			1			HIG			-	
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Male 168 111 Female 111 Male 39 Female 12 Male 12 Male 12 Male 12 Male 12 Male 12 Male 13 Male 14 15 Male (under Total Male 38 Male 38 Male 9 Female 5 Memale 7 Female 7 Female 2	Athrepsia Male — Male — — Pemale — — — — — — — — — — — — — — — — — — —	Total Male Female	With senile dementia	437 336 e 101	or by absorption of Male Female Female Male Female Female Male Female Male Female Male Female Female Female	

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	CAUSES OF DEATH		IstoT	Under 15 yrs.	72-44 years	42-64 years	65 years and over	Not Stated	12-24 years	25-44 years	45-64 years	65 years and over	, bewobiW	Canada	haitira	.A.Z.U	Others	Not Stated
167	Suicide by firearms	Male	46		1 2 1	22	4 2			1 9	10	2	27	- O - I	12	00	15	61
168	Suicide by cutting or piercing instruments	Male	4-1			11			11	-	- - -	11	11	2	1 5	11	11	1 1
169	Suicide by jumping from high places	Male Female		11		 	11		1		-		11	=				
170	Suicide by crushing	Male Female	11		-	1		П			11			П				
171	Suicide by other means	Male	-	11		 		II		11		T			7		11	1
173-175	Homicides Total	Male	4 10	1-		= 1		11	-	10	-		-	200	-	11	- 2	
173	Homicide of persons one year of age and over by firearms	Male Female	00 01							-		11	-	21		11	1-	
174	Homicide of persons one year of age and over by cutting or piercing instruments	Male	12				- 1 1							T			77	
175	Homicide by other means	Male	1 -	1-	11						11		11	-		11		
176-198	Other violent deathsTotal	Male Female	252	51 20	33 3	33 1	2		n	36	50	14	15	121	39	255	65	2
177	Food poisoning	Male	1 2	27		 			11				11	c1		11		11
178	Accidental absorption of toxic gases	Male	÷ ←	11	1			H		67		11		co ⊢				
179	Other acute accidental poisonings (except by gas)	Male	10 co	2121	1					1-	-	TI	-	07 00	01	- 1		
180	Conflagration	Male	9 4	4 0	1 2	11	1 1	11			-		11	70 4			-	
181	Accidental burns (conflagration excepted)	Male	11	70 01	-				1-	H 작	ත 	11	1-	00 4	20	1 2	1-	
182	Accidental mechanical suffocation	Male	910	4 60	1	11				21				10 4	-	-	T	
183	Accidental drowning	Male	4 00 00	150	1000	00				4	eo	-	3	27.70	100	12	-	
184	Accidental injury by firearms	Male	18	- C -	170	2	2	11	11	2	01-	11		10		eo	4	1 1
185	Accidental injury by cutting or piercing instruments	Male	4-			1 1			7	21-	-	11		-			2	

ing or Male	Total 38 16 1 2 1 7 5	Male S
186 Accidental injuries resulting from falling, crushing landslide 188 Injuries inflicted by animals 190 Excessive heat 191 Excessive heat 192 Lightning 193 Accidental electric shocks 194 Other accidents (a) Foreign body (b) Others under this title (b) Others under this title (b) Others under this title (c) Violent deaths of which the nature (accident, suic homicide) is unknown	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH 199 Sudden death 200 Cause of death not specified or ill-defined	A Accidents in mines and quarries B Accidents caused by machines C Railway accidents D Street car accidents E Automobile and motorcycle accidents F Other land transportation G Water transportation H Air transportation

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932

							_	X	MONTHS	ω.		-	-		
	CAUSES OF DEATH		Total	Visunst	February	March	lirqA	May	nue	- Kint	deu gu A	September	October	Мочетрег	December
DEATH	DEATHS—ALL CAUSES	Total Male Female	5521 3248 2273	451 246 205	439 240 199	472 287 185	494 296 198	511 261 250	427 266 161	410 244 166	419 269 150	403 246 157	272	450 275 175	598 346 252
CLASS	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	871 512 359	35	35	62 35 27	34	98 46 52	72 44 28	33 21	34	40 24 16	58 42 16	76 46 30	152 83 69
	Typhoid fever	Male Female	5 4		-			11			-	2			
1.0	Undulant fever	Male Female	-		-	1	T	11	11	-	11	-		1	
9	Smallbox	Male	<u> </u>	-		[]			1 1		1	T	T	-]
1-	Measles	Male	10				67		67		П		01	-	
00	Scarlet fever	Male	+ — e	-			-	0 -		11		-		-	
0	Whooping-cough	Male	1000	- 			01 m	1	~		- - -	07 -	90	→ co c	
10	Diphtheria	Male	000	12	-	1			- H			-	7	ō —	01,
11	Influenza Total	Male	166	13	0 0 1	10	21	22	שמו	200		4 4	000	17	59
	(a) Sole cause	Male	0 00	100) F-1 F)	က င	10°)) 	-	* → •	4	7 0	*
	(b) With bronchitis	Male	0 00 E	Management of the Control of the Con	1 0		0 0	9 9	-		П	-	11	7 -	10
	(c) With pneumonia	Male	76	[E-	N 00 -	1 4	N 90	101	1-		11	=	00	10	31
	(d) With other respiratory diseases	Female Male	100	4	2 - 2	20	4 4	907	2 -1	-	TI		-	1-67	20 01
	(e) With intestinal complications	remaie Male	01-0	110	0	11	11		11		1-			~	কচ কচ
	(f) With other causes	r emale Male	4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	71 4 0	n 01 0	27 10 7	11	H 41			-Ţ			- 00	155
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(e) Other infectious or parasitic diseases. CAUSES OF DEATH						-		-	2	MONTHS	2	-	-	-	-	1
Nate 1 1 1 1 1 1 1 1 1		CAUSES OF DEATH		Total	January	February									November	December
National		(c) Other infectious or parasitic diseases	Male					11	-		II	11		·	- T	
Cancer and other malignant tumours. Total Wale 257 18 25 15 22 37 21 23 26 20 20 30 26 24 (Augustus and pharynx Male 257 18 25 15 22 37 21 23 26 20 20 11 18 (Augustus and bharynx Male 25 15 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LASS I		Fotal Male Female	582 295 287	48 29 19	47 14 33	43 26 17	45 21 24	57 19 38	23.5	49 25 24	48 21 27	44 22 22	52 31 21	44 27 17	47 25 22
Cancer of the buceal cavity and pharynx	45-53	Cancer and other malignant tumoursTotal	Male	282	29	13	24	20	18	33	25	20	20	30	26	24
(a) Of the stomach and duodenum	45	Cancer of the buccal cavity and pharynx	Male	10	11	1-	-	2			11				~	01
(a) Of the stomach and duodenum Remaile 50 5 6 6 8 5 13 6 6 8 8 5 13 8 6 8 8 8 6 8 8 6 8 8 8 8 8 8 8 8 8 8	46	(a) Of the oesophagus	Male	L- 9	1	1			-	1	-		01	2	r-1	
(a) Of the rectum (b) Of the pancreas and biliary ducts (c) Of the pancreas and biliary ducts (d) Of the pancreas and biliary ducts (e) Of the pancreas (f) Of the pancreas (g) Of the pancreas (h) Of the mediastinum (h) Of the uterus (h) Of the uterus (h) Of the uterus (h) Of the uterus (h) Of the cevix uteri (h) Of the cevix uteri (h) Of the cevix uteri (h) Of the remails genital organs (h) Of the remails genital organs (h) Of the uterus			Male	90	00 10	5 4	9 67	00 en	10 5	13	9 4	9 6	∞ ℃	0 80	∞	(OC 01
(a) Of the pancreas (b) Of the pancreas (c) Of the pancreas (d) Of the pancreas (e) Of the pancreas (f) Of the pancreas (g) Of other organs (g) Of other organs (h) Of the mediastinum (c) Of the mediastinum (d) Of other organs of the respiratory system (e) Of the uterus (f) Of the cervix uteri (g) Of other female genital organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs (g) Of other organs of the respiratory system (g) Of other organs of the respiratory system (g) Of other organs of the respiratory system (g) Of other organs (g) Of o		(c) Of the rectum	Male	41	01	1.1	12 21			- 1	eo 61	<u> </u>	- 1	10	0	-
(f) Of the pancreas (f) Of the pancreas (f) Of the peritoneum (g) Of the peritoneum (g) Of the peritoneum (g) Of the peritoneum (g) Of other organs (g) Of other organs (h) Of the lung (c) Of the mediastinum (d) Of other organs of the respiratory system (e) Of the uterus (f) Of the cervix uteri (g) Of other cervix uteri (h) Of the cervix uteri (h) Of the cervix uteri (h) Of the respiratory system (h) Of the cervix uteri (h) Of the respiratory system (h) Of the uterus (h) Of the respiratory system (h) Of the cervix uteri (h) Of the cervix uteri (h) Of the respiratory system (h) Of the respiratory system (h) Of the uterus (h) Of the uterus (h) Of the respiratory system (h) Of the respiratory system (h) Of the uterus (h) Of the respiratory system (h) Of the respiratory		Of the liver and biliary	Male	1,21	1	27 4	-		⊢ ⇔	හ හ	401	≎1 	21	101-	Q1	
(g) Of the peritoneum. (g) Of other organs f the respiratory system. (h) Of the uterus (h) Of the uterus (h) Of the cervix uteri (h) Of the cervix uteri (h) Of the remale genital organs (h) Of the remale genital organs (h) Of the remale genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of other female genital organs (h) Of the cervia of the cerv		(e) Of the pancreas	Male	0000	11	-		11	4	2	-		-		1	27
(a) Of the larynx		Of the	Male Female	w 4	TI	-	2		11	-	11	1-				-
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(b) Of the lung	2.7	(a) Of the larynx	Male	7 -				11		1	-			11		-
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(a) Of the uterus		Of other organs of the respiratory	Male	1		11	T	4					-			
(b) Of the cervix uteri	48	(a) Of	Female	22	4	7	T	4	ಕಾ	П	-	-	==	2	4	2
Cancer of other female genital organsFemale 11 1 — — 1 2 1 2 — 1 — 1		(b) Of the cervix uteri	Female	1.5	-	2	-	2	60	-	2	П	1	-	-	23
	49	Cancer of other female genital organs	Female	11	1	T	T	T		-23		-21	T		T	ಣ

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	M	Male	Male	Male .	Male	Male	Male	Male	Female	Male	Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female Male	Female	Female	Female	Male Female Male
50 Cancer of the breast	(b) Of the kidney	(c) Of the prostate glandMale	(d) Of the testicle	(e) Of other male genito-urinary organs	52 Cancer of the skin	53 (a) Of the eye and orbit	(b) Of the circulatory system	(c) Of the glandular system	(d) Of the female urinary organsFemale		(f) Of the brain	spine and spinal cord	Femal Male	Female (i) Of the abdomen Male		Multiple cancer	Of unspecified or unknown location	54 Non-malignant tumours	(a) Of the ovaryFemale	(b) Of the uterusFemale	(c) Of other female genital organs Female	(d) Of the brain

TABLE 19-CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932-Continued

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	Male	Male Female Male	Male	Fotal Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male	Male
CAUSES OF DEATH	(f) Of the prostate gland	(g) Of other or unspecified sites	(g) Tumours of other or unspecified sites, nature not specified	OF NUTRITION S AND OTHER	56 Acute rheumatic fever	57 Chronic rheumatism, osteo-arthritis	59 Diabetes mellitus	60 Scurvy	63 Rickets	66 Diseases of the thyroid and parathyroid glandsTotal	(a) Simple goitre	(b) Exophthalmic goitre	(c) Myxoedema, cretinism	(d) Tetany	(e) Others under this title
	Total January March April May July August July August July August September	May Total Total March May August July August	(f) Of the prostate gland	(f) Of the prostate gland	(f) Of the prostate gland	Male April Male April Appril Male April Male April Appril Male S AND OTHER Male S AND OTHER Male S AND OTHER Male S AND OTHER Male S AND OTHER Male S AND OTHER Male S AND OTHER S A A A A A A A A A	Male Male Male Male Mare Male	Male Male	Male December De	Male Male	Male Sands Accember Accem	Male Male			

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Male Female Male Male Male Male Remale Male Remale Male Female Male	Total Male Female	Male Female Female Female Female Female Female Female Female Male Female	Total Male Female Male	Total Male Female	Male Female Female Female Female Kale Kale Female Female
67 Diseases of the thymus gland 68 Diseases of the adrenals (Addison's disease) 69 Other general diseases (a) Fifty or amyloid degeneration (b) Steatosis of heart, etc (c) Others under this title	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	(b) Aleukaemia (Hodgkin's disease)	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	78 Encephalitis (non-epidemic)

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	CAUSES OF DEATH	(a) Cerebral haemorrhage (b) Cerebral embolism or thrombosis (c) Softening of the brain (d) Hemiplegia and other paralysis, cause not specified 84 (a) Dementia praecox (b) Other psychoses (c) Paralysis agitans (d) Disseminated sclerosis (e) Others under this title (d) Disseminated sclerosis (e) Others under this title (e) Others under this title (f) Mastoid process (h) Mastoid process

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CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM		

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, FOR THE WHOLE PROVINCE, 1932—Continued

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		Male Female Male Female Male Female Male Male	Male Female Total Male	Male Female Male Male Male Female Male Male Female
	CAUSES OF DEATH	98 Gangrene 99 Other diseases of the arteries	103 Other diseases of the circulatory system	104 Diseases of the nasal fossae and annexa 105 (a) Croup (b) Other diseases of the larynx 106 (a) Bronchitis, acute (c) Bronchitis, unspecified 107 (a) Bronchopneumonia (b) Capillary bronchitis 108 Lobar pneumonia 109 Pneumonia, not specified
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 		::	: 0 : 0 : 0	: :	: 0 : 0		(b) Ulceration of the intestines (2 years and over)	: a : a	Male	le

TABLE 19.—CAUSES OF DEATH FOR EACH SEX BY MONTHS FOR THE WHOLE PROVINCE, 1932—Continued

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	February		225 16 1 1 1 1 1 1 1 1 1 8 8 8 8 8 8 8 8 8 8 8
	January	2 2 1	38 211 17 12 12 12 12 12 12 13 14 17 17 17 17 17 17 17 17 17 17 17 17 17
	Total	721 100 110 110 110 110 110	2020 1100 1100 1100 1100 1100 1100 1100
		Male Female Male Female Male Male Female Male Female Male	Male Female Male Male Male Female Female Female Male Male Male Female Male Male Male Female
	CAUSES OF DEATH	(b) Cirrhosis of the liver, not specified as alcoholic (b) Other diseases of the liver	CLASS X.—DISEASES OF THE GENITO-URINARY SYSTEM 130 Acute nephritis, including unspecified (under 10 years of age) 131 Chronic nephritis 132 Nephritis not specified (10 years and over) 133 Other diseases of the kidney and annexa 134 Calculi of the urinary passages 135 Diseases of the bladder (tumours excepted) 136 (a) Stricture of the urethra (b) Other diseases of the prostate
			CLASS X.—DISEASES 130 Acute nephri of age) 131 Chronic neph 132 Nephritis not 133 Other disease 134 Calculi of the

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139 (a) Diseases of the ovary, Fallopian tube and parametrium Female	(b) Of the uterus	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	140 (a) Abortion with septic conditions Female	(b) Self-induced abortion with septic conditions Female	141 (a) Abortion without mention of septic conditions (hae-morrhage included)	142 (a) Ectopic gestationFemale	143 Other accidents of pregnancy (haemorrhage excluded) Female	144 (a) Placenta praeviaFemale	(b) Other puerperal haemorrhageFemale	145 Puerperal septicaemia (not specified as consequent upon abortion) Female 1	146 Puerperal albuminuria and eclampsiaFemale 1	147 Other toxaemias of pregnancyFemale	148 (a) Puerperal phlegmasia alba dolens and thrombosis Female	(b) Puerperal embolismFemale	149 (a) Caesarean sectionFemale	(c) Instrumental delivery Female	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE Male Female	151 Carbuncle Male 152 Cellulitis, acute abscess Male 153 Other diseases of the skin and annexa and of the cellular tissue Female 154 Female 155 Female 156 Female 157 Female 158 Female 159 Female

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	CAUSES OF DEATH	BONES AND ORGANS OF Total Male Female	Osteomyelitis	CLASS XIV.—CONGENITAL MALFORMATIONSFemale Female	(a) Congenital hydrocephalus Female (b) Spina bifida and meningocele Female (c) Congenital malformations of the heart Female (d) Monstrosities Male Temale (e) Others under this title Female Male Temale Male Temale Male Female	CLASS XV.—DISEASES OF EARLY INFANCYFemale Female	Premature birth
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		(b) Without senile dementia (70 years and over)			Suicide by solid or liquid poisons or by absorption of male corrosive substances Femal		Suicide by drowning	Male	Male Suicide by cutting or piercing instruments	169 Suicide by jumping from high places	170 Suicide by crushing

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		Male Female Male Female Male	Male Female Male Female	Male Male	Male Female Male	Male Kemale	Male Female Male	Male Female Male	
	CAUSES OF DEATH	1 Suicide by other means Total 5 Homicides Total 8 Homicide of persons one year of age and over by firearms	4 Homicide of persons one year of age and over by cutting or piercing instruments	8 Other violent deaths		0 Conflagration	2 Accidental mechanical suffocation	4 Accidental injury by firearms	186 Accidental injuries resulting from falling, crushing or landslide 188 Injuries inflicted by animals
		171 173-175 173	174	176-198	178	180	182	184	186 188 190

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Excessive heat Lightning Accidental electric shocks Other accidents (a) Foreign body (b) Others under this title Violent deaths of which the nature (accident, suicide homicide) is unknown Capital punishment	4 : II	Accidents in mines and quarries Accidents caused by machines Railway accidents Street car accidents Automobile and motorcycle accidents Other land transportation Air transportation Air transportation
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1932

		VIT	AL STATISTICS BRANCH	
	Over 100 yrs.	- -	- - - -	
	95-99 years			
	90-94 years	1-4 m		
	85-89 years	12 12 12	w = 0	
	80-84 years	49 25 24	-	
	75-79 years	32 34	n	
	70-74 years	33 33	1	
	65-69 years	522	800	
	60-64 years	67 47 20	0000	
	55-59 years	55 36 19	047	
	50-54 years	35 21	37	4
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AGES	40-44 years	23	12 1 2 1 1 2 1 1 2 2 1 1 2 2 2 2 2 2 2	0
	85-39 years	34	or4	2
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	25-29 years	40 17 23	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	20-24 years	35	1000	D
	15-19 years	25 13 12	V W 4 -	0
	10-14 years	15		Ī
	5-9 years	21 10 11	0880	4
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	Under 1 year	113	11	
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		Total Male Fema		- re
			AND PARISITIC DISEASES chitis monia r respiratory diseases tinal complications causes rospinal meningitis Total	
			AND PARISITIC DISEASES hitis nonia respiratory diseases nal complications causes causes To	
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	S		ous and ver ause bronchitis pneumonia other respir intestinal c other causes	
	CAUSES OF DEATH	JSE	Total Total Typhoid fever Typhoid fever Male Male Diphtheria Diphtheria Diphtheria Diphtheria Total Male Female Male Female Male Total Female Male Co With pneumonia Co With intestinal complications Male Male Male Male Male Male Male Male Male Male Male Male Male Male Male Male Male Female Male M	
	3	CAU	FECTI noid fe sles theria tenza Sole e With With With With with	
		TT	INFECTIC Typhoid fer Measles Diphtheria Influenza (a) Sole cs (b) With p (c) With p (d) With p (d) With p (f) With o Dysentery Erysipelas Eppidemic cs Tuberculosi	
		3	Typ Mes Dip Infl (a) (b) (c) (c) (d) (f) (f) (f) Erry Erry Tub Inb	
		DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARISITIC DISEASES 1 Typhoid fever 7 Measles 10 Diphtheria 11 Influenza 11 Influenza (a) With bronchitis (b) With pneumonia (c) With pneumonia (d) With other respiratory diseases (e) With intestinal complications (f) With other causes 13 Dysentery 15 Erysipelas 18 Epidemic cerebrospinal meningitis 18 Epidemic cerebrospinal meningitis 19 Z3-22 Tuberculosis	
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Tuberculosis of the respiratory system Tuberculosis of the meninges and central nervous system Tuberculosis of the intestines and peritoneum Tuberculosis of the vertebral column (a) Disseminated tuberculosis, chronic Syphilis —CANCER AND OTHER TUMOURS (a) Of the oesophagus (b) Of the stomach and duodenum (c) Of the rectum (d) Of the pancreas (e) Of the pancreas (f) Of the pancreas (g) Of other organs (h) Of the lung (c) Of the lung (d) Of the lung (e) Of the undiastinum (b) Of the hung (c) Of the mediastinum (d) Of the hung (e) Of the mediastinum (b) Of the nectioneum (c) Of the nectioneum (d) Of the lung (e) Of the mediastinum (e) Of the mediastinum	cervix uteri
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TABLE 20.-CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1932-Continued

		VIT	TAL S	STAI	ISTIC	CS BI	RANC	H			
1	Over 100 yrs.	111	1 1					1111			
	95-99 years	111	1 1	1							
	90-94 years	111									
	85-89 years	111									
	80-84 years	1-1	-				-				
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	50-54 years	187							1111	-	
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	20-24 years		- <u>-</u>			TIT	TTTT	1111	TIII	111	T-11
	15-19 years		Ī T			111	111		T		
	10-14 years		11		TIII				1111	111	
	5-9 years	111	1 1						1111	1-1	-
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	CAUSES OF DEATH	Cancer of the breast	Of the kidneyOf the prostate gland	Of the testicle	(b) Of the circulatory system	Of the glandular system Of the female urinary organs	Of the brain	Of the spine and spinal cord Of the neck	Of other specified organs Multiple cancer	Non-malignant tumours (a) Of the ovary	erus n
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(g) Of the thyroid gland	Acute rheumatic fever Chronic rheumatism, osteo-arthritis Diabetes mellitus Scurvy (a) Simple goitre (b) Exophthalmic goitre Other general diseases	FORMING ORGANS (a) Simple purpura (b) Aleukaemia (Hodgkin's disease)	CHRONIC POISONINGS AND INTOXICA- TIONS (b) Alcoholism L—DISEASES OF THE NERVOUS SYSTE AND OF THE ORGANS OF SPECIAL SENSE Encephalitis (non-epidemic)
(g) Of the thyroid gland	Acute Chronic Diabete Scurvy (a) Sii (b) E3	(a) (b)	CLASS V.—CHRONIC POISONINGS AND INTOXICA— TIONS 75 (b) Alcoholism CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE
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5 CLASS		CLASS IV.—DISEASES OF THE BLOOD AND BLOOD— FORMING ORGANS 70 (a) Simple purpura 71 (a) Pernicious anaemia 72 (a) Leukaemia (b) Aleukaemia (Hodgkin's disease)	CLA

TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1932-Continued

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	Over 100 yrs.		
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	90-94 years	111111111111111111111111111111111111111	1 1 2
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	65-69 years	172 252 173 174 175 175 175 175 175 175 175 175 175 175	20 1 13 00
	60-64 years	111111111111111111111111111111111111111	-
	55-59 years.		
	50-54 years		
	45-49 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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		ve locomotor ataxia ve locomotor ataxia eases of the spinal cord bral haemorrhage bral embolism or thrombosis iplegia and other paralysis, cause n fied entia praecox and other psychoses vsis agitans oid process ASES OF THE CIRCULATORY	the heart
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	Ħ	ataxia spinal cord . age to thromb ther paralysi and other p	lvul
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	CAUSES OF DEATH	or a sire sism ism ox a sism of the heart s endocarditis .	
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	CA	Simple meningitis Progressive locomotor ataxia Other diseases of the spinal cord (a) Gerebral haemorrhage (b) Cerebral embolism or thrombosis (c) Hemiplegia and other paralysis, cause not specified (d) Dementia praecox and other psychoses (e) Paralysis agitans (d) Disseminated sclerosis (d) Disseminated sclerosis (e) Mastoid process 1.—DISEASES OF THE CIRCULATORY	Diseases of the heart
		Simple me Progressivo Other dise (a) Cerebi (b) Cerebi (c) Demer Epilepsy (c) Paraly (d) Dissen (a) Otitis (b) Masto (b) Masto (b) Masto (b) Asystem	Diseases of Pericarditis (a) Acute (a) Chronic
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Chronic myocarditis and myocardial degeneration Myocarditis, unspecified, 45 years and over Diseases of the coronary arteries Embolism and thrombosis of coronary arteries Angina pactonic	f the heart	riosclerosis (of coronary arteries excepted) rene r diseases of the arteries	f the lymphatic system (lymphangitis abnormalities of blood pressureASES OF THE RESPIRATORY	ases of the nasal fossae and annexa Bronchitis, acute Bronchopneumonia Capillary bronchitis ar pneumonia
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Chronic myocarditis and myocardial generation Myocarditis, unspecified, 45 years and Diseases of the coronary arteries Embolism and thrombosis of coronary arteries	ther	oscle ene dise es	ases o etc.) oathic	ases of the nasal fos Bronchitis, acute Bronchopneumonia Capillary bronchitis ar pneumoniarisy Pulmonary embolism
-	2	Arteriosclerosis (of coronary arteries excepted) Gangrene Other diseases of the arteries Diseases of the veins (varices, haemorrhoids, phlebitis, etc.)	Diseases of the lymphatic system (lymphangitis, etc.) Idiopathic abnormalities of blood pressure II.—DISEASES OF THE RESPIRATORY SYSTEM	Diseases of the nasal fossae and annexa (a) Bronchitis, acute
(e) (e) (e) (e) (e) (f) (f) (f) (f) (f) (f) (f) (f) (f) (f	(b) An	Ar Ga Ot Dis	5	
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1932—Continued

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1	Over 100 yrs.			1111						
	95-99 years		111							
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	80-84 years		n = n	1111			TII	111		TITI
	75-79 years	-	- -			111	111	111		
	70-74 years		4-10	1111		11-	111	-		
	65-69 years				1111	-11		111		
	60-64 years		940					1 -	1-1	
	55-59 years		900	1117				1 2		
	50-54 years	111171	0 ro 4		-	-			-	
	45-49 years		1-4m			-	111			
20	40-44 years		041		1 2	111			- -	1111
AGES	35-39 years		44				111	1 00		
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	10-14 years		-123	-	1111			- -		
	5-9 years		988				TII	1 00	00	
	4 years		1 1 2							
	3 years		24-1		111			60		
	2 years							-		
	1 year		123				121			
	Under 1 year		26 18 8				1 1 0 0 0 0 0 0 0 0			
	Total	444 4	113 69 44		- 10-	- co c	1881	19	∞ 4 to ∞ co	
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	CAUSES OF DEATH	gestion and haemorrhagic infarct of 5, etc	ES	es c	f the	of t	ses	pue		ases f th
	Ö	Congestion and haemorrhagic infarct of the lung, etc	EAS	seas	ases of the oesophagus	cer	dises	bea :	rnia rnia	dises is o
		(b) Congestion and haemorrhagic infarct of the lung, etc. Asthma Pulmonary emphysema	DIS	(b) Diseases of the tonsils(c) Other buccal cavity diseases	Diseases of the oesophagus	(b) Ulcer of the duodenum	Other diseases of the stomach	Diarrhoea and enteritis (2 years and over)	Appendicitis	Other diseases of the intestinesCirrhosis of the liver (non-alcoholic)
		(b) As	×		Dise (a)	(q)	Oth	Dia	(a)	Otil
		1112	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM	115	11.6		118	120	121	123
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Yellow at Other dis ry calculi r disease passages conitis, ca SEASES TEM	re nephritis (including unspecified, under 10 remains of age)	oxae
(a) Yellow atrophy of the liver (b) Other diseases of the liver Stiliary calculi Other diseases of the gall-bladder and biliary passages Peritonitis, cause not specified —DISEASES OF THE GENITO-URINARY	Acute nephritis (including unspecified, under 10 years of age) Chronic nephritis Other diseases of the kidneys and annexa Calculi of the urinary passages Diseases of the prostate (a) Stricture of the urethra L—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE (b) Of the uterus (non-venereal) (c) Self-induced abortion with septic conditions Other accidents of pregnancy (haemorrhage excluded) (a) Puerperal septicaemia (not specified as consequent upon abortion)	Puerperal albuminuria and eclampsiaOther toxaemias of pregnancy
(a) (b) Billia Oth	Acutro Chro Neph Neph (a) Othe (a) AND AND AND (b) (b) Othe (a)	Pue
(b) Other diseases of the liver. 126 Biliary calculi	130 Acute nephritis (including unspecient years of age)	146
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TABLE 20-CAUSES OF DEATH BY AGE AND SEX, EDMONTON, 1932-Continued

		V	ITAL	STA	ATIST	ICS	BRAN	NCH		
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-	95-99 years		111	11						
-	90-94 years	-	111	11			111			
	85-89 years	1			111		TII		111	
	80-84 years									
	75-79 years			11		11				
	70-74 years		111	11		11				
	65-69 years		111						111	
	60-64 years	1		11						
	55-59 years		111		111				111	
	50-54 years		1-1	-	111					
70	45-49 years	1	111	11						
AGES	40-44 years			11.	111					
4	35-39 years	-								
	30-34 years	Ī	111							
	25-29 years	-		1-						
	20-24 years	1	111							
	15-19 years				2 = 3	2 2				
	10-14 years	.			400	0101		1111-111	111	
	5-9 years		111		- -		111			
	4 years				111					
	3 years	T	111		111					
	2 years	-			1 1	1-				
	1 year									
	Under 1 year						13	H 01 4 00 H	45 27 18	112
	Total	-	112		000	200	14		45 27 18	150
		Female	Total Male Female	Male Female	Total Male Female	Male Female	Total Male Female	Male Female Male Female Male Male Female Male Female	Total Male Female	Male Female Male Female
	CAUSES OF DEATH	149 (c) Instrumental deliveryFemale	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Male Male Female	152 Cellulitis, acute abscess	CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total OF LOCOMOTION Male Femal	154 Osteomyelitis	CLASS XIV.—CONGENITAL MALFORMATIONS	(b) Spina bifida and meningocele	CLASS XV.—DISEASES OF EARLY INFANCY	158 Congenital debility

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				Female Male Female Male Female Male Female
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birth with record of caesarean birth without record of caesarean the new-born asses peculiar to early infancy, lack of care	senile dementia	S	rquid poisons or by absorp- e substances or strangulation Total	Tota
irth with record of caesareth without record of caesareth new-born ses peculiar to early infack of care	ears	АТН	y ab	50 5
irth with record of caes irth without record of caes he new-born ses peculiar to early inf ck of care	ý 0	DE	or by	es
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njury at birth with record of caesarean njury at birth without record of caesarean operation Atelectasis Icterus of the new-born Cher diseases peculiar to early infancy, including lack of care SENILITY	With senile dementia	LEN	rides by solid or liquid poisons or by absorption of corrosive substances remained by hanging or strangulation remained by drowning remained by firearms ricides remained by drowning remained by drowning remained by cutting or pieceing instruments remained by cutting or pieceing instruments remained remained by cutting or pieceing instruments remained remained by cutting or pieceing instruments remained re	al de al ak ciden
Injury at birth with record of caesarean operation Injury at birth without record of caesarean operation Atelectasis Icterus of the new-born Other diseases peculiar to early infancy, including lack of care -SENILITY	With With	-VIC	Suicide by solid or liquid poisons or by absorption of corrosive substances Suicide by hanging or strangulation Suicide by drowning Suicide by firearms Homicide of persons one year of age and over by cutting or piercing instruments	Accidental deaths
160 (a) Injury at operation (b) Injury at poperation 161 (a) Atelectasis (b) Icterus of (c) Other dise including l	(a) With senile dementia (b) Without senile deme	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	Suicides Suicide b Suicide 'S Suicide 'S Suicide 'I Homicide b Homicide	Accidental deaths
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160 161 LASS	Ť	LAS	163-171 163 165 165 167 173-175	176-198 178 179
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TABLE 20.—CAUSES OF DEATH BY SEX AND AGE IN EDMONTON, 1932—Continued

4		VITAL STATISTICS BRANCH	
	Over 100 yrs.	******* ** ******	
	95-99 years		TIII
	90-94 years		
	85-89 years		TTTT
	80-84 years		TITI
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	70-74 years	2211 2211	TITI
	65-69 years	1932	
	60-64 years		TIII
	55-59 years	EDMONTON	
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	45-49 years	<u> </u>	
AGES	40-44 years	ABLE	
A(35-39 years		
	30-34 years		
	25-29 years		
	20-24 years	PRECEDING	TTTT
	15-19 years		
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	l year	11111 11 11111 2 111111111	
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		Accidental burns (conflagration excepted) Accidental injury by firearms Accidental injury by cutting or piercing instruments Excessive cold Other accidents SPECIAL CLASSES OF ACCID scidents in mines and quarries ilway accidents tomobile and motorcycle accidents her land transportation	
		agration excepted) ing or piercing instranting from falling arries L CLASSES OF ACC arries accidents	Water transportation
		firearms utting or piercing resulting from lide quarries thines n	
		g or pierc Iting fro	
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	CAUSES OF DEATH	ntal burns ntal injury ntal injury ntal injury ushing or ive cold . accidents . accidents . accidents ur accidents ur accidents ur accident	spo
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		Conflagration	ran
	-	Accidental burns (conflagration endecidental injury by firearms	Water transportation Air transportation
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		181 181 188 188 190 190 194 197 197 198	U H
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TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1932

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		Canada	492 281 211	77 444 333		21 21	7	18	27	-	00 00	07	172	44-		010	77
		Widowed	156 63 93	19	11	ĪĪ		7 01	1 27		4 65	-		10	7		7
		65 years and over	126 88 38	10			11	ro or	7			-		27.0	7		
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u	Married	25-44 yrs.	112 44	29 10 19				<u></u> ⊢ ∞	7-		10	1				Π	
ditio		15-24 yrs.	11	w w												П	
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njuga	le	45-64 yrs.	288	0 m =						11							
CoJ	Single	25-44 yrs.	40 29 11	11 7 4	-			-			-						
		15-24 yrs.	46 27 19	15		1		2			-		T	2			
		Under 15 yrs	179	28 19 9		71	-	9 8	2	-		{ }	12		=		
		Total	921 533 388	139 76 63	-	22	-	28	ගෙ ගෙ	-	11	- 00	- 75	100		67.0	71
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			Total Male Female	Total . Male . Female	Male .	Male .	Male .	Male .	Male . Female	Male .	Male .	Male .	Male .	Male .	Male	r emale Male	Female Male . Female
						:		Total		:		:	:		:		
		CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	1 Typhoid fever	7 Measles	10 Diphtheria	11 Influenza T	(a) Sole cause	(b) With bronchitis	(c) With pneumonia	(d) With other respiratory diseases	(e) With intestinal complications	(f) With other causes	13 Dysentery	15 Brysipelas	18 Epidemic cerebrospinal meningitis
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lition Nativity	25-44 yrs. 25-44 yrs. 65 years and over Widowed Canada British	
Conjugal Condition	45-64 yrs. 65 years and over	11
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	CAUSES OF DEATH	(a) Of the ovary (b) Of the uterus (c) Of the brain (e) Of the thyroid gland (g) Of other or unspecified sites (g) O

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AND BLOOD-FORMING Total	Male Female Male Female Male Female Male Female Female Female Female	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	OUS SYSTEM AND OF Total NSE	raxia Rale taxia Rale pinal cord Rale Female Male Pemale Rale Female Male or thrombosis Remale Female Male and other psychoses Rale Female Male Female	,
CLASS IV.—DISEASES OF THE BLOOD AND ORGANS	Simple purpura	DISONINGS AND IN	I.—DISEASES OF THE NERVOUS THE ORGANS OF SPECIAL SENSE	Simple meningitis	(a) Disseminated scierosis

						9	Conjugal		Condition	n				A	Nativity	y.	
						Single	4)		M	Married	-				For	Foreign	
	CAUSES OF DEATH		IstoT	Under 15 yrs	15-24 yrs.	25-44 yrs.	.siv 45-64	65 years and over	15-24 yrs.	sry \$6-64	65 years	and over Widowed	Canada		United States	Other	Not Stated
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91	(a) Acute endocarditis	Male	00		1	12	11	TI			11			1	100	1 1	II
92	(a) Chronic endocarditis, valvular diseases		20 10		1	11	-		-	eo 4	4 10	[- 00 -		111	4 00		0101
93	(c) Chronic myocarditis and myocardial degeneration	Male	22		T		11	4-	11		1 6	10 IO	6	12.12		~ 1	7 7
	(d) Myocarditis, unspecified, 45 years and over	Male	eo 9		11	TI	1					22		- 10		1 1	11
94	(a) Diseases of the coronary arteries		9				7						1 2 1	10			
	(b) Embolism and thrombosis of coronary arteries	Male	151		11	11	-	12]		10	9		111	21		- 0
	(c) Angina pectoris	Male	40		TT	11		11				20			eo	1 1	
95	(b) Other diseases of the heart	Male	1 C- 00	1			11		11	01	00 -		100	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	100	1	07
96	Aneurysm (other than of the heart)		m			-					7 7		·	- 1			TI
26	Arteriosclerosis (of coronary arteries excepted)		19			1						∞ o	00	1-0	6 4		63
00	Gangrene	Male					-	-				4		4			-
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100	Diseases of the veins (varices, haemorrhoids, phlebitis,	r emale	٠,					}			1		' -			1	

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angitis, etc.) Female Male Male Male Female	RY SYSTEM	xaFemale	Bronchitis, acute Female	BronchopneumoniaFemale	Capillary bronchitis	Male Female	Male	Male Female	Congestion and haemorrhagic infarct of the lung, etc. Remale	Male	, dale Female	THE DIGESTIVE SYSTEMFemale	Wale	Other buccal cavity diseases	Male Female	Ulcer of the stomach	Male	Male	2 years of age) Female	and enteritis (2 years and over)Rale	Male	Female Male Female

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X.—DISEASES OF THE GENITO-URINARY SYSTEM			1-	NHO	(,	1	-		11
X.—DISEASES OF THE GENITO-URINARY SYSTEM 66 1 2 1 1 1 - Female 19 1 1 1			1-		1	<u> </u>	1	_	
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CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE	Female	conditions Female	Other accidents of pregnancy (haemorrhage excluded) Female	specified as consequent Female	Female	Female	Female	CELLULAR TISSUE Male . Female	acute abscess	AND ORGANS OF Total Male Female	Male . Female	Total Male Female	Male Female Vale Female heart Male Female Male Female	Total Male Female	Yale . Female . Male . Female .

TABLE 21.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN EDMONTON, 1930. 1932—Continued

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				Male Female	Male Female	Female Male Female	Male Female	Total Male Female	Male Female Male Female	Total Male Female	Total Male				Male
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		CAUSES OF DEATH		160 (a) Injury at birth with record of caesarean operation	(b) Injury at b	(b) Icterus of the new-born	(e) Other diseases peculiar to early infancy, including lack of care	CLASS XVI.—SENILITY	(b) Without senile dementia (70 years and over)	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	163-171 Suicides Tot	163 Suicide by solid or liquid poisons or by absorption corrosive substances	165 Suicide by hanging or strangulation	166 Suicide by drowning	167 Suicide by firearms

A over by cutting Male	
r by cutting gas) ruments crushing or	Male
173–175 Homicides	Accidents in mines and quarries Accidents caused by machines Railway accidents Street car accidents Automobile and motorcycle accidents Other land transportation Water transportation Air transportation

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932

						-		M	MONTHS	2	-	-		-
	CAUSES OF DEATH		Total	January	February	March	li _T qA	May	gung	Vint	August	September	October	Хочетрет
DEATH	DEATHS—ALL CAUSES	Total Male Female	921 533 388	33	32	91 38	359	105 56 49	73 43 30	42 35	61 20	62 29 29	66 41 25	75 47 28
CLASS	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	139 76 63	21 4 8	01 4 9	3 8	18 10 8	23	100	040	12	004	∞ ∞	10
7	. Typhoid fever	Male	1 22	-				0			-			
10		Male	7		-			1						
11	Influenza Total		28	77	7 7	8	40	∞ 4	0			-	1	23
	(a) Sole cause	Male	00 CO		1 -		1			TI		11	11	
	(b) With bronchitis	Male	1-			11	1-			11			11	
	(c) With pneumonia	Male	11			7	Ī	20 -1	TT		TT	1-	-1	
	(d) With other respiratory diseases	Male Female	∞ ⊣			ĪĪ	-		TT	11	11		[]	
	(e) With intestinal complications	Male	77			11	TT	-			11		11	
	(f) With other causes	Male	6			-	e0	1 01	10	11		11	11	-
13	Dysentery	Male	-	1 1	11	11	11						-	
15	Erysipelas	Male	07.0	-		7	1-			1		T		-
18	Bpidemic cerebrospinal meningitis	Male	7.1	٦			-							
23-32	Tuberculosis Total		88	1	200	40	8	9	2	20	91	(4	2

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Male	Total Male Female	Male Male Female Female	Female Female Female Male	Male Female Male	Male Female Male Female	Male Female Male Female	Female Female	Female Female
: : : : : : :	To Ma	Total Fel Ma	Fee Man	Ma Ma Ma Fe	Fe Ma	Fe Fe Ka	Fe	
Tuberculosis of the respiratory system	AND OTHER TUMOURS	nx	Of the stomach and duodenum	the liver and biliary ductsthe pancreas	other organs			(b) Of the cervix uteri
Tuberculosis of the Tuberculosis of the 25 Tuberculosis of the 26 Tuberculosis of the 32 (a) Disseminated (b) Disseminated (b) Disseminated 34 Syphilis	CLASS II.—CANCER AND		(b) Of the stomach (c) Of the rectum	Of Of	of of	(a) (b) Of (c) Of	Of	(b) Of the cervity Cancer of other

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932—Continued

								M	MONTHS					
	CAUSES OF DEATH		Total	January	February	March	April May	unr	- Vint	August	September	October	Мочетрет	December
50	Cancer of the breast	Male Female Male	10	T-1			62	00		1801]
	(b) Of the kidney	Male	-	-		-	<u> </u>		-		1		-]
	(c) Of the prostate gland	Male	က	23			1				-		1]
	(d) Of the testicle	Male		l			1	-				1	-	l
52	Cancer of the skin	Male	7.5	-		-	1					11	1	1
50	(b) Of the circulatory system	Male	- I		-		11	11			11	11	1	1 1
	(c) Of the glandular system	Male Female Female	1 4		11-				H					
	(e) Of the bones and joints	Male Female		1		11	II		 				11,	'
	(f) Of the brain	Male	4.67	-			1						7	-
	Of the neck	Female Male						-						11.
	(j) Of other specified organs	Male Female												
	(k) Multiple cancer	Male	-	-		11	11	-	-		11			
50	Non-malignant tumours Total (a) Of the ovary	Male Female	N 00 N		-	21	-						1 2	421
	(b) Of the uterus	Female Male Female	0 H 0		-								-11	111

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			: :		Female Male Female			: :	::	75 (b) Acute alcoholism		

TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932—Continued

								MOM	MONTHS					
	CAUSES OF DEATH		Total	January	February	March ————April	May	nue ·	July	4suguA	September	October	Мочетрег	December
7.9	Simple meningitis	Male Female	27 27			-								-
80	Progressive locomotor ataxia	Male	1-	[]	11	11	II				[-			1 1
81	Other diseases of the spinal cord	Male	1 -						-		1		11	.
82	(a) Cerebral haemorrhage	Male	1 C- 00	-	-	10	1-	2 4	1 -		T 6	-	7	
	(b) Cerebral embolism or thrombosis	Male	o →			1	4	r	1		1-1	1	,	1
	(d) Hemiplegia and other paralysis, cause not specified.	Male	10			1-			-					
84	(b) Dementia praecox and other psychoses	Male	1 -			- []			-					-
20	Epilepsy	Male								1				-
87	(a) Paralysis agitans	Male	-		IT		 []			11			11	-
	(d) Disseminated sclerosis	Male	-											
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(d) Myocarditis and myocardial degeneration (d) Myocarditis, unspecified, 45 years and over	(a) Pulmonary embolism and thrombosis
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TABLE 22.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932—Continued	MONTHS	CAUSES OF DEATH Total July April May August July August September October Movember	113 Pulmonary emphysema	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM Male 69 2 3 8 6 8 6 7 7 6 3 4 9 Female 44 2 2 7 2 5 3 4 2 5 7 4 1	115 (b) Diseases of the tonsils	(c) Other buccal cavity diseases	116 Diseases of the oesophagus		(b) Ulcer of the duodenum	118 Other diseases of the stomach	:		19		:	1	124 Cirrhosis of the liver (non-alcoholic)		(b) Other diseases of the liver
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ES OF DEATH FOR EACH SEX BY MONTHS, IN EDMONTON, 1932—Con	Total January Pebruary March April May	CELLULAR TISSUE Male 1 1 1 1	Male 1 — 1 — — — — — — — — — — — — — — —	AND ORGANS OF Total 9 1 1 2 2	Male 3 - 1 1 - 2	Total 14 3 2 2 2 Male 7 1 1 1 2 Female 7 2 1 1 1	Male 1	Total 45 2 1 5 9 2 Male 27 1 - 2 4 2 Female 18 1 1 3 5	Male 3
TABLE 22—CAUSES	CAUSES OF DEATH	CLASS XII.—DISEASES OF THE SKIN AND CELLULAR TISSUE	152 Cellulitis, acute abscess	CLASS XIII.—DISEASES OF THE BONES LOCOMOTION	154 Osteomyelitis	CLASS XIV.—CONGENITAL MALFORMATIONS	(c) Others under this title	CLASS XV.—DISEASES OF EARLY INFANCY	158 Congenital debility

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TABLE 23.—CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1932—Continued

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TABLE 23.—CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1932—Continued

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AGES	40-44 years	41	
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	CAUSES OF DEATH	lism and thrombosis es	ES
	CAI	(b) Embolism and thrombosis of coronary arteries arteries (c) Angina pectoris (d) Others and not specified (e) Others and not specified (e) Other diseases of the heart) (e) Other diseases of the arteries (e) Other diseases of the arteries (e) Other diseases of the arteries (e) Other diseases of the arteries (e) Diseases of the larynx (e) Bronchopneumonia (f) Bronchopneumonia (f) Bronchopneumonia (f) Bronchopneumonia (f) Gangrene of the lung (f) Gangrene of the lung (f) Gangrene of the lung (f) Gangrene of the lung (f) Gangrene (f) G	EAS
		(b) Embarter (c) Angii (a) Func (b) Other Anteriosc Other dis II.—DISH SYSTEM Diseases (a) Bron Lobar pr Pleurisy Asthma.	DIS
		(b) (c) (a) (b) Aneu Arte Othe Idior Dise (a) Lobe Pleu Asth	×
		94 (b) Embolism and thrombosis of coarteries (c) Angina pectoris (b) Others and not specified (c) Anteriosclerosis (of coronary arteries except diseases of the artries except diseases of the artries of blood pressur class of the larynx 102 Idiopathic abnormalities of blood pressur class of the larynx 105 Diseases of the larynx 107 (a) Bronchopneumonia 108 Lobar pneumonia 110 Pleurisy 111 (b) Gangrene of the lung	CLASS IX.—DISEASES OF THE DIGESTIVE SYSTEM
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ases of the buccal ca of the pharynx an adenoid vegetations) Ulcer of the stomach	cer	disea	iciti	Hernia	test	Cirrhosis of the	llow	cal	r disease passages	nitis,	M	nepl	c ne	tis	of	es 0
Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations)	(b) Ulcer of the duodenum	Other diseases of the stomach	Diarrnoea and enteritis (under 2 Appendicitis				Y	Biliary calculi	Other diseases of the gall-bladder and biliary passages	Peritonitis, cause not specified	DISEASES OF THE	Acute nephritis, including unspecified (under 10 years of age)	Chronic nephritis	Nephritis not specified (10 years and over) Other diseases of the kidneys and annexa	Calculi of the urinary passages	Diseases of the prostate
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		ovary, Fallopian tube and para-Female terus	CHILDBIRTH Total	(a) Abortion with septic conditions Female	Female	Female	Female	I.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE	Male Female	Total Male Female	Male Fema	Male Female
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			DIS	A (Puerperal septicaemia (not specified as consequent upon abortion)	Puerperal albuminuria and eclampsia	(a) Caesarean section	SSU	Cellulitis, acute abscess		Osteomyelitis	Other diseases of the bones (tuberculosis ex- cepted)
		(a)	CLASS XI.—DISEASES OF PREGNANCY, CHILDBIRTH AND THE PUERPERAL STATE					CLASS XII.—DISEASES OF THE SKIN AND CELLULAR Total TISSUE Male		CLASS XIII.—DISEASES OF THE BONES AND ORGANS Total Male OF LOCOMOTION Femal		
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COL	(a) Congenital hydrocephalus	DISE	Premature birth		-SEI	(a) With senile dementia(b) Without senile dementia (70 years and over)	-VI	Suicides	Suicide by firearms
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CLASS XIV.—CONGENITAL MALFORMATIONS		CLASS XV.—DISEASES OF EARLY INFANCY		Н	CLASS XVI.—SENILITY		CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	163-171	
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TABLE 23.—CAUSES OF DEATH BY SEX AND AGE, IN CALGARY, 1932—Continued

6			VITAL STATISTICS BRANCH
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			Male Female Male Female I Male Female Male Female Male Female Female Male Female Female Male Female Female Male Female Male Female Male Female Male Female Male Female Female Male Female
		CAUSES OF DEATH	Suicide by cutting or piercing instruments Homicides Accidental deaths Accidental burns (conflagration excepted) Accidental injuries resulting from falling crushing or landslide Accidental electric shocks (b) Other accidents Violent deaths of which the nature (accident suicide, homicide) is unknown Cause of death not specified or ill-defined
			168 173–175 176–198 181 181 193 194 195 CLASS X

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SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED ALSO IN THE PRECEDING TABLE, CALGARY, 1932						11			
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	<	A Accidents in mines and quarties	B Accidents caused by machines	C Railway accidents	D Street car accidents	A	0	*	H Air transportation
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TABLE 24.--CAUSES OF DEATH FOR EA CH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1932

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		Canada	368 214 154	884 4
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		65 years	110 80 30	ω ω ω α α α α α α α α α α α α α α α α α
	Married	45-64 years	159 1 102 3 57	
ditior	Ma	25-44 years	92 92 44 4 48	2 2
Con		Not stated		
Conjugal Condition		65 years and over	12 7	
Con	Single	45-64 years	9 25 6 5	ro ro
	52	15-24 years	37 19 18 13 19 6	ωωω
		Under 15 yrs	137 92 45	25.29 4 1 - 1 1 m m 1 - 1 - 1 1 -
		Total	748 441 307	0.468 0 4 1 1 1 1 1 1 1 1 1
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			Total Male Female	Total Male Male Male Female Male Male Female Female Female Female Female Male Female Female Male Female Male Female Female Female Male Female Male Female Male Female Male Female Male Female Male Male Male Female Male Male Male
				Total
		CAUSES OF DEATH	DEATHS—ALL CAUSES	CLASS I.—INFECTIOUS AND PARASITIC DISEASES. 1 Typhoid fever 8 Scarlet fever 9 Whooping—cough 10 Diphtheria 11 Influenza (a) Sole cause (b) With other respiratory diseases (c) With intestinal complications (d) With other causes (f) With other causes 15 Erysipelas 16 Poliomyelitis and polioencephalitis (acute)
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TABLE 24.—CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY, IN CALGARY, 1932—Continued

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			Male	Female	Female	Female	Male	Male	Male	Male	Male	Male	Male Female	Male Female	Female	Male	Male	Male	Male
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		CAUSES OF DEATH	(c) Of the mediastinum	(a) Cancer of the uterus	(b) Of the cervix uteri	Cancer of other female genital organs	Cancer of the breast	(a) Of the bladder	(b) Of the kidney	(c) Of the prostate gland	(d) Of the testicle	(e) Of other male genito-urinary organs	Cancer of the skin	(c) Of the glandular system	(d) Of the female urinary organs	(e) Of the bones and joints	(f) Of the brain	(h) Of the neck	(i) Of the abdomen
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				48 (49 (50	51)			52	55					

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(j) Of other specified organs ————————————————————————————————————	CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER GENERAL DISEASES	56 Acute rheumatic fever	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	70 (a) Simple purpura	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS

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		CAUSES OF DEATH	VI.—DISEASES OF THE NERVOUS SYSTEM THE ORGANS OF SPECIAL SENSE	Encephalitis (non-epidemic)	Simple meningitis	Other diseases of the spinal cord	(a) Cerebral haemorrhage	(d) Hemiplegia and other paralysis, cause not	Epilepsy	(c) Paralysis agitans	(e) Others under this title	Diseases of the organs of vision	(a) Otitis	(b) Mastoid process	CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEM	Diseases of the heart. Pericarditis
			CLASS \	7.8	7.9	81	82		10 00	2 8 2		80 80	89		CLASS V	90-95

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Acute endocarditis Chronic endocarditis, valvular diseases Chronic endocarditis, valvular diseases (a) Acute myocarditis and myocardial degeneration Female Male Female Male Male Temale Male Male Male Male And	CLASS VIII.—DISEASES OF THE RESPIRATORY SYSTEM Pemale Female Male Female Male Female Male Female Fem
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TABLE 24.--CAUSES OF DEATH FOR EACH SEX BY CONJUGAL CONDITION AND NATIVITY IN CALGARY, 1932-Continued

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			Male Female Male	remale Male Female	Male	Male	Male	Kale	Male	r emale Male	remale Male	Female Male	remale Male Female	Total Male Female	Male	Female Male Female
		CAUSES OF DEATH	(b) Ulcer of the duodenum	Diarrhoea and enteritis (under 2 years of age)	Appendicitis	(a) Hernia	(b) Intestinal obstruction	(a) Cirrhosis of the liver, specified as alcoholic	(b) Cirrhosis of the liver, not specified as alcoholic	(a) Yellow atrophy of the liver	Biliary calculi	Other diseases of the gall-bladder and biliary passages.	Peritonitis, cause not specified	THE GENITO-URINARY SYSTEM	nephritis including unspecified (under 10 years age)	
		CAL	(b) Ulcer of the duodenum	119 Diarrhoea and ent	121 Appendicitis	122 (a) Hernia	(b) Intestinal ob	124 (a) Cirrhosis of	(b) Cirrhosis of	125 (a) Yellow atropl	126 Biliary calculi	127 Other diseases of	129 Peritonitis, cause	CLASS X.—DISEASES OF THE GENITO-URINARY	130 Acute nephritis of age)	131 Chronic nephritis

Male 1 Male 4 Female 4 Male 2 Male 2 Male 1 Male 1 Female 1 Female 1	Female 10 — 2 — — — — — — — — — — — — — — — — —	Female 5 — 2 — Female	:	Male 1 1 1 Female	Male 1 — 1 — 1 — — — — — — — — — — —	Total 2 Female 1	Male 1	Total 11 11 — Male 9 9 — Female 2 2 — —	Male 1 1
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CAUSES OF DEATH		TstoT	Under 15 yr	25-44 years	45-64 years	65 years	Detated ToN	15-24 years	25-44 yearn	45-64 years	65 years	Widowed .	Canada	British	United	States	Other	Not Stated
(e) Others under this title	Male Female	- es	60							11			====	- so		· · · ·		11
CLASS XV.—DISEASES OF EARLY INFANCY	Total Male Female	39	39 24 15						111		1		39 24 15	0410	1 1 1			
158 Congenital debility	Male Female Male Male	17	8 17 1			1	111	111					P-1 P	111				
(b) Injury at birth without record of caesarean operation	Female Male Female												-	1011				
(e) Other diseases peculiar to early infancy	Male Male Female													1 1			111	
CLASS XVI.—SENILITY	Total Male Female	040	111		111						10000			112	4.6.	111	TIT	111
(b) Without senile dementia (70 years and over)	Male Female Male	144									1 - 8 -				00		1111	
CLASS XVIIVIOLENT OR ACCIDENTAL DEATHS	Total Male Female	36	717	1000	001				400	7	24-		1 2 4 5	7 1 1	no n	7 - 7	99	111
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corrosive substances	Female	=		-		-	1	T								-	T	

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164 Suicide by poisonous gas 167 Suicide by firearms 168 Suicide by cutting or piercing instruments 173–175 Homicides 173–175 Homicides 173–175 Homicides 176–198 Accidental deaths 18 Accidental burns (conflagration excepted) 18 Accidental injuries resulting from falling, crushing on landslide 180 Accidental electric shocks 191 (b) Other accidents 192 Violent deaths of which the nature (accident, suicide, homicide) is unknown 18 Suicide by cutting or piercing instruments 18 Female 19 Female	CLASS XVIII.—ILL-DEFINED CAUSES OF DEATH. 200 Cause of death not specified or ill-defined. SPECIAL CLASSES OF ACCIDENTAL DEATHS (INCLUDED	A Accidents in mines and quarries B Accidents caused by machines C Railway accidents D Street car accidents E Automobile and motorcycle accidents Female

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932

Female 4 - 1		Months	Months	
(1) With Causes causes	Total Male	Total Male 17 1 1 1 1 1 1 1 1	Total Tota	(I) Will Guier causes
	Total Male All A	Total	Total	f) With other causes
Male 4 1 1	Total	Total Male 441 32 324 448 448 449 44	Total Male 748 677 Total Male 748 677 Total Male 748 677 Total Male 748 677 Total Male 748 677 Total Male 748 677 Total Male 748 7	e) With intestinal complications
Male 1	Total Tota	Total Tota	Total	(a) Will Other respiratory
With intestinal complications Male Male 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total	Total Male 441 441 442 443 443 444 4	Total Tota	With other respiratory diseases
With other respiratory diseases Male 4 1 2 1 Female 1 - - - - With intestinal complications Male 3 1 - - - With other causes Male 4 - - 1 - - -	Total	Total Total Total Total Total Total Total Total Total Total Total Total Total Male M	Total Tota	c) With pheumonia
With other respiratory diseases Male 9 1	Total Male Total	Total	Total Tota	1 With wallmonia
With pneumonia Male 14 1	Total Male 17 13 17 18 19 19 19 19 19 19 19	Total Tota	Total Tota	a) Doing Caraco
With pneumonia Male 1 1 1 1 1 1 1 1 1	Total Tota	Total Male	Total Male Tot	Solo cause
Sole cause Male 1 <	Total Total Total Total Total Total Male A41 Total Male A41 Total Male A41 Total Male A41 Total Male A41 Total Male A41 Total Male A41 Total Male A41 Total A42 Total Male A43 Total A44 A44 A45	Total Tota	Total Tota	
Sole cause Male 1 <	Total Tota	Total Total	Total Tota	
(a) Sole cause Male Male Male Male Male Male Male Mal	Total Male A44 A48 A44 A	Total	Total	
Influenza	Total	Total	Total	Jiphtheria
Influenza	Total Total 307 32 32 41 Total Male 307 32 32 41 Total Male 307 32 32 41 Total Male 307 32 32 41 Total Male 308 32 32 41 Total Male 35 5 5 61 Total Male 35 5 7 7 13 43 51 August Male 35 5 7 7 13 6 7 7 34 33 7 Total Male 35 5 7 7 13 6 7 7 34 33 7 Total Male 35 5 7 7 13 6 7 7 34 33 7 Total Male 35 5 7 7 13 6 7 7 34 33 7 Total Male 35 5 7 7 13 6 7 7 7 34 33 7 Total Male 35 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total Tota	Total Tota	
Diphtheria Dipthral D	Total Male A41 Total Male A57 A57 A64	Total	Total	W nooping—cough
Premale Standard Premale Standard Diphtheria	Total Total Total Amale Amal	Total Tota	Total 748 67 57 61 73 75 59	
Whooping-cough Male 1 — 2 Diphtheria — </td <td> Total Tota</td> <td> Total</td> <td> Total Tota</td> <td>scarlet lever</td>	Total Tota	Total	Total Tota	scarlet lever
Scarlet Tever Scarlet Tever Whooping-cough Wale	Total Male 307 32 443 51 August Male 64 4 1 2 5 7 7 34 851 August Male 64 6 7 7 35 75 August Male 64 6 7 7 35 75 August Male 64 6 7 7 35 75 August Male 65 7 7 13 6 7 7 35 75 August Male 66 7 7 7 35 75 August Male 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Total Male A41 A2 A32 A43 A44 A4	Total	
Nath other respiratory diseases Nath	Total Male A41 35 32 41 73 759 August Angle A41 2 5 5 7 7 13 6 7 7 5 7 7 13 6 7 7 7 13 8 6 7 7 7 13 8 6 7 7 7 13 8 6 7 7 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Total Male A41 35 32 41 173 August Semale 35 5 5 7 13 6 7 24 33 3 3 4 4 26	Total Tota	Aeasles
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Massles 4 1 1 2 Female 1 - <t< td=""><td>Total Total Total Male January Female 35 1 1 2 2 2 2 3 3 4 4 5 5 7 7 1 3 6 7 7 7 1 3 6 7 7 7 1 3 6 7 7 7 1 3 6 7 7 7 1 3 7 5 7 7 7 7 1 3 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td><td>Total 748 67 75 75 61 73 August A</td><td>Total Total Total Male A411 35 22 20 173 August August A32 35 1 17 24 35 1 17 25 1</td><td></td></t<>	Total Total Total Male January Female 35 1 1 2 2 2 2 3 3 4 4 5 5 7 7 1 3 6 7 7 7 1 3 6 7 7 7 1 3 6 7 7 7 1 3 6 7 7 7 1 3 7 5 7 7 7 7 1 3 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Total 748 67 75 75 61 73 August A	Total Total Total Male A411 35 22 20 173 August August A32 35 1 17 24 35 1 17 25 1	
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TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932—Continued

				-	-	-		M	Months					
	CAUSES OF DEATH		Total	January	February	March	lingA vsM	nue -	- Kint	August	September	October	Мочеmber	Decemper.
48	(a) Cancer of the uterus	Female	- 10	- 21										:
	(b) Of the cervix uteri	Female	4	1	-	, -							-	ļ
49	Cancer of other female genital organs	Female	4				1			T	I	1		23
50	Cancer of the breast	Male Female Male	133	-			=	127			90			
	(b) Of the kidney	Male			-		· 				Ī	- 1		1
	(c) Of the prostate gland	Male	- 9	<u>-</u>		ං ට	-				-			1
	(d) Of the testicle	Male	1-4		-		-			1	Innana	,		1
	(e) Of other male genito-urinary organs	Male	1	1							1	<u> </u>		1
52	Cancer of the skin	Male	_ <u>_</u>	1					-		1	1	Ī	J
50	(c) Of the glandular system	Female Male Female				111	Ter-						-] [
	(d) Of the female urinary organs	Female	4	1	1	1			[5]			-		
	(e) Of the bones and joints	Male			1		-	-		T	-		-	- 1
	(f) Of the brain	Female Male	-			ĪĪ	T	1 1		11	11		-	
	(h) Of the neck	Female Male	80			-	 []	1				11	-	
	(i) Of the abdomen	Female Male	12		11		<u> </u>			-	11	-	-	
	organs	Female Male			-		ĪĪ			1		·		
54	Non-malignant tumours Total	Female Male	00		-		1-			- 1		11		
	(a) Of the ovary	Female Female	9 4	11	6 67	11				11	11	11	=-	11
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Female	Male Female Male	Total Male Female	Male Female Male Kemale Male Male Female	Total Male	Male Female Male Male Male Female Male	Male Female Male	Total Male Female	Male
(b) Of the uterus F	(d) Of the brain F (g) Of other or unspecified sites F F	CLASS III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE GLANDS AND OTHER THE GENERAL DISEASES	Diabetes mellitus	CLASS IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING T ORGANS	70 (a) Simple purpura	CLASS V.—CHRONIC POISONINGS AND INTOXICATIONS	CLASS VI.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE	78 Encephalitis (non-epidemic) $ \mathbf{r} $

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932—Continued

								Me	Months	And the second s				
	CAUSES OF DEATH		Total	January	February	dorsM ————————————————————————————————————	May	quuc	- Kint	4suZuA	September	October	November	December
7.9	Simple meningitis	Male	60 F		-	-1							T	-
81	Other diseases of the spinal cord	Male	7 27			1	. , 	1			~			⊣
82	(a) Cerebral haemorrhage	Male	100	-		11	1 07 -				110			
	(d) Hemiplegia and other paralysis, cause not specified Mark	Male	20 07	٦		=				- I	N	77	11	
85	Epilepsy	Male			-				1	1				1 1
28	(c) Paralysis agitans	Kemale Male	0	-			· 		11			IT	11	1
	(e) Others under this title	Female Male	N	- [-	
00	Diseases of the organs of vision	Female Male		11					11			11		
89	(a) Otitis	Male	676				 []				11	1-		11
	(b) Mastoid processFer	Male Female	7 1					N						111
CLASS	CLASS VII.—DISEASES OF THE CIRCULATORY SYSTEMFemal	: : 0	174 107 67	16	17.00	117	17 1 15 1	13 12 7 9 6 3	988	13	10	11 11	111	110
90-95	Diseases of the heartTotal	Male	81	9 4	00 U	<u>г</u> и	10	тэ <u>г</u>	m n	9	m =	10	00 0	10
06	Pericarditis	Male	2	۲	P	۱ د	+ [í 		1	-	7	0
91	Acute endocarditis	Male	127		1					11			-	
92	Chronic endocarditis, valvular diseases	Male	137	-	- 	4-			-	-	1 -	01-	67	
93	(a) Acute myocarditis	Male) H ()		4	4 []	-		-		-	-		-
	(c) Chronic myocarditis and myocardial degenerationFer	Male Female	30	<u> </u>	∞ 4	121	12 02	111	HH	01		0.4	40	10 00

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Male Formale Formale Formale Male Fermale Male Male Fremale Male Fremale Male Fremale Fremale Fremale Male Fremale Male Fremale Male Fremale Male Fremale Male Male Fremale Male Fremale Fremale	Male Male Male Remale Male Male Total Male Female Male Female Female Male Female Male Female Female Male Female Male Female Male Female Female Male Female Female Male Female Female Male
(a) Embolism and thrombosis of coronary arteries (c) Angina pectoris (a) Functional diseases of the heart (b) Others and not specified Aneurysm (other than of the heart) Arteriosclerosis (of coronary arteries excepted) Other diseases of the arteries Idiopathic abnormalities of blood pressure VIII.—DISEASES OF THE RESPIRATORY SYSTEM Diseases of the larynx	107 (a) Bronchopneumonia 108 Lobar pneumonia 110 Pleurisy 112 Asthma 114 (b) Gangrene of the Jung 115 Diseases of the buccal cavity and annexa, and of the pharynx and tonsils (including adenoid vegetations) 117 (a) Ulcer of the stomach (b) Ulcer of the stomach (c) Ulcer of the stomach 118 Other diseases of the stomach 119 Diarrhoea and enteritis (under 2 years of age)

TABLE 25.--CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932-Continued

	December	[1]
	November	1
_	October	
-	September	
	4 ugust	
ths	July	
Months	aung	111
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	March	
-	February	1
	January	11
	Total	20 20 44 111 1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1
		Male Remale Male Remale Male Remale Male Remale Male Remale Male Female Rale Rale Rale Rale Rale Rale Rale R
	CAUSES OF DEATH	(b) Intestinal obstruction (b) Cirrhosis of the liver, specified as alcoholic. (c) Cirrhosis of the liver, not specified as alcoholic (d) Cirrhosis of the liver, not specified as alcoholic 126 Biliary calculi 127 Other diseases of the gall-bladder and biliary passages 129 Peritonitis, cause not specified 120 Acute nephritis including unspecified (under 10 years of age) 131 Chronic nephritis. 132 Nephritis not specified (10 years and over) 133 Other diseases of the kidneys and annexa 134 Calculi of the urinary passages 137 Diseases of the prostate 138 (a) Of the ovary, Fallopian tube and parametrium (b) Of the uterus
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THE	Fen	upon Female	Female	Female	TISSUE Male Female	Male Female	OF TotalMale	Male Female Male	Total Male Female	Male Female Male Female Male Male Male Female	Total Male Female	Male / Male Female Female caesarean operation Female

TABLE 25.—CAUSES OF DEATH FOR EACH SEX BY MONTHS, IN CALGARY, 1932.—Continued

	December		9		2 - 3				1 = 0	,
	November				123				-	
	October		111		P 10 01	-	111-		40	1 -
	September	The second				-	TIIT			
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	May									
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	March									
	F ebruary	7			7					
	January		2 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5000	22		1 5 1	100	1 1 1
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		Male Female Male Female	Total Male Female	Male Female Male Pemale	Total Male Female	Male Female	Female Male Female Male	Female Male Female Male	Female	Male Female Male Female
						Total on of			Total	
	CAUSES OF DEATH	161 (a) Atelectasis	CLASS XVI.—SENILITY	(b) Without senile dementia	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	163-171 Suicide by solid or liquid poisons or by absorption	, 164 Suicide by poisonous gas	168 Suicide by cutting or piercing instruments	176-198 Accidental deaths T	179 Other acute accidental poisonings (except by gas) 181 Accidental burns (conflagration excepted)

ing, crushing o Male Femal Male Femal Femal Accident, suicide, Male Femal	Total Male Femal	Male	DENTAL DEATHS (IN	Male	Male Femal	Male Femal	Male Femal	Male	Male Femal	Male	Male Femal
Male 15 Male 1 Female 1 Female 1 Female 1 Female 1	Total 2 Male 2 Female	Male 2 Female —	(INCLUDED ALSO IN	Male 1 Female —	 	Male 2	Male 1	Male 6 Female 3		Male	Male Female
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			CALGARY,	-11	11			11	1-	11	11
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			1932			TI	T		 		
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TABLE 26.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS, CLASSIFIED ACCORDING TO RESIDENTS OF DECEDENTS IN CITIES OF 5,000 POPULATION AND OVER, 1932

				A	All Deaths	aths							D	eath	s in	Pu	blic	Deaths in Public Institutions	ituti	ons			Dea	ths	elser	wher	e tha	in ne	Deaths elsewhere than in Public Institutions	blic	Inst	ituti	ons
						Norwhe	n-re	Non-resident where death and	nt in	Non-resident in city where death occurred	5°							Non-resident in city where death occurred	dear	dent ath o	in c	ty							Non-resident in city where death occurred	resic des	dent ath and	in o	city
	Total	-	R	Residents	nts	Rei	Resident in Province	nt	N resid Pro	Non- resident in Province	in e	Total	tal		Residents	lents		Resident in Province	ent	res	Non- resident in Province	t in	F	Total		Resi	Residents	10	Resident in Province	Resident in Province		Non- resident in Province	nt in
Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male Female	Total		Female	Total	Male	Femnle	Total	Male	Female	Total	Male	Female	Total	Wale Female	LetoT	Male	Female
748 921 197 123	748 441 921 533 197 112 123 66	38 0 3 8 8 0 5 2 3 5 6 7	307 604 8 388 621 3 85 109 57 75	748 441 307 664 347 257 137 921 533 388 621 347 274 291 1197 112 85 109 58 51 84 123 66 57 75 35 46 38	257 274 51 40	291 884 388	89 4 178 11 50 3 24 1	113 134 148	1040	10 00 44 [3 1 12	433 273 6663 397 153 87 72 42	73 1 87 2 42	160 30 266 38 66 6 30 2	8-7-0	882 441 135 141 142 141 141 141 141 141 141 141 141	16 127 156 277 32 83 14 36	27 77 83 49 36 22	100 100 134 143 144	9988	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0	2012 2015 444 110	168 136 25	122		163 1 123 1 23 21	14 18 19 26	10 1 1 2 2	10000	10411	H 80 H 61	

TABLE 27.—TOTAL DEATHS (EXCLUSIVE OF STILLBIRTHS) AND DEATHS IN PUBLIC INSTITUTIONS SHOWING THE NUMBER NON-RESIDENT IN THE PROVINCE OF ALBERTA, 1932

			All Deaths	hs				In Pu	In Public Institutions	titution	v2	
		Total		Non	Non-resident in Province	it in		Total		Non	Non-resident in Province	t in
	Total	Male	Male Female Total Male Female	Total	Male	Female	Total	Male	Male Female Total Male Female	Total	Male	Female
Total for Province	5521	3248	3248 2273	64	51	13	2442	2442 1492 950	950	34	80	9

80 years and over

VITAL STATISTICS BRANCH

- 11			
	7.0-79 years	1 0 0 1 1 0 0 1 1 1 0 0 1 1 1 1 1 1 1 1	825
	60-69 years	122 123 124 127 128 128 129 141 170 180 180 180 180 180 180 180 180 180 18	170
1932	50-59 years	1	604
	40-49 years		518
PROVINCE	30-39 years	8 0 1 1 10 1 10 1 1 10 1 10	328
WHOLE	20-29 years	E 1 1 1 1 1 1 1 1 1	345
THE	15-19 years		171
FOR	10-14 years	-	116
CAUSES	5-9 years		135
	1-4 years	12 12 12 12 13 13 14 15 1	249
SELECTED	Under 1 yr.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	166
ROM			
PERIODS F	səzA IIA	01 & C	5521
- 1			
TABLE 28.—NUMBER OF DEATHS BY AGE	CAUSES OF DEATH	Typhoid fever Smallbox Measles Scarlet fever Scarlet fever Diphtheria Influenza Lethargic encephalitis Lethargic encephalitis Meningococcus meningitis Tubercular meningitis Tubercular meningitis Tubercular meningitis Tubercular tumours Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Acute rheumatic fever Meningitis Diseases of the heart Other diseases of the respiratory system Other diseases of the respiratory system Diseases of the liver Diseases of the liver Diseases of the liver Diseases of early infancy and malformations Suicides Other diseases and accidents of pregnancy Diseases of early infancy and malformations Suicides Other violent deaths Other defined diseases	Total
		26	T

TABLE 29.—PERCENTAGE OF DEATHS BY AGE PERIODS FROM SELECTED CAUSES FOR THE WHOLE PROVINCE, 1932

			yr.	s	S	sars	sirs	stre	sars	sars	sars	sars	■188	
	CAUSES OF DEATH	All Ages	Under 1	1-4 year	5-9 year	10-14 y	ok 61-91	20-29 ye	ov 68-08	0, 0,	PA 69-09	ox 69-09	»A 62-02	80 years
1 Typ	Typhoid fever	.16	T		J	98.		-8.	.91	.19	.17	1	1	1
	Smallpox Measles	25	50	2.01	2.22	11	1 80				11		11	1 1
	Scarlet fever	20.	1 3	08.	1 1	98.	Ī	.29		1	T	T	1	1
9 Who	Whooping cough	.1.8	1.81	1.61	2.96	98.	100				11		11	1 1
	Influenza	50 80 80 7	4.91	7.64	4.0	06.9	8.19	4.64	2.75	5.03	4.97	4.03	7.15	6.48
	Acute anterior pollomyelitis Lethargic encephalitis	0.70	0.T.	040	77.7	ت ا ا	0 00 0 00		.30		00 00 00 00			
	Meningococcus meningitis	.14]	.80		98.	w.	1	.30		7	.13	-	
	Tuberculosis of the respiratory system	5.67	1.40	2.23	11.86	13.79	20.47	1.45	16.77	8.69	33.3	1.69	.61	.22
	Tuberculosis of the intestines and peritoneum	.29	.20	08.	1.48		00	.50	.61	.08	0	.26	1	
- '	Other tubercular diseases	.63		08.0	2.25	60 c	1.75	1.74	1.52	76.	.50	68.		
	Acute rheumatic fever	9.70		1.20	1.48	20.7	1.75	8.18	30.0	16.22	19.04	20.00	13.21	7.99
	Meningitis	1.8	.30	08.	1.48	98.		.29	2	.19				
82 Cer	Cerebral haemorrhage, apoplexy	2.70		0 0 0	0 6 6	000	0 4 0	20.00	.91	- C - O	3.15	5.07	6.06	6.91
	Other diseases of the circulatory system	5.13	.10	10.1	1	98.	- 1	1.16	3.66	6.95	10	15.71	16.00	14.69
	Bronchitis	.49	1.00	T :	174		1		i	.19	ಯ	.39	.36	1.5
107-109 Pne	Pheumonia (all forms)	6.56	14.24	16.06	00.7	3.45	4.68	2.61	2.75	2.90	3.15	4.67	4.73	7.78
	Diarrhoea and enteritis (under 2 years of age)	2.37	11.95	4 00.	-		0	⊣ [1	0.	٠ I	1 i	00.	1.30
	Appendicitis	2.48	01.	6.02	13.34	12.93	5.85	3	4.27	3.47	6.	3	T	.43
	Diseases of the liver	1.27	-		1 40	100	1.17	2.03	2.72	1.93	85 H	1.82	.61	60.0
	Other diseases and accidents of pregnancy	1.16	01.		0	00.	2.99	50	0 00 0 00 0 10	14.0	٠ ا	0		07.0
	Diseases of early infancy and malformations.	9.94	54.37	1.61	I	1.72	00	1			T			
163-171 Suic	Suicides	1.74		1	1		S	4.9	5.1	4.05	0.0	0	.7	.22
		6.18	06.	12.4	0 0		13.46	19.13	11.59	9.0	5.30	2.73	2.91	3.88
199-200 111-	Uther defined diseases	00.01	06.02		1.48	20.00	∞		18.60	22.39	19.20	16.88	16.48	4.
`	active of district the	2		4	н			0	000) T.	66.	70.		
Total	al	100.00	100.00	100.00	100.001	100.001	100.001	100.00 100.00	00.00	100.001	100.001	100.001	100.001	00.001
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TABLE 30.-MARRIAGES DURING THE YEAR BY MONTHS, 1932

		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	41	20	Divorced	0.
	December	22	4	bride	Divovid	2.
	November	148 77 225 21 10 110 887	289	cent. of brides	■wobi W	4.9
	October	20-10-11-11-11-11-11-11-11-11-11-11-11-11	9	Per ce	Spinsters	93.1
	4040400	27~4887380	51	ride-	Divorced	1.7
	September		302	932 Per cent. of bride-grooms who	s19wobiW	6.5
-	18n3n4	106 888 6688 667 1761	394	sr cent	Bachelors	91.7
SI	Ylul	124 115 115 115 115 115 115 115 115 115 11	497		Destroyid	12
Months	aunc	111 10 10 12 12 12 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	486	PARTIES,	swobiW	14
	YsM	23 23 44 11 116	277	1 1 6	Spinsters	62
		110 110 110 110 110 110 110 110 110 110	09	CONTRACTING between erm and Div	Divorced	12
	lingA		60	N OF CON	ewobi W	102
	Матећ	93 63 11 24 9 6 6	401	ON OF larriages Widow	Spinsters	217
	February	25 10 10 10 10 10 10 10 10 10 10 10 10 10	348	CONDITION Marr s and W	Divorced	79
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10		awobiW	131
	January	1	60	CONJUGAL	Spinsters	4425
	Гота	117869 11869 11869 11474 16555	5054	GES.	Total Marriages	5054
		Edmonton Calgary Lethbridge Lethbridge Red Deir Drumheller Wetaskiwin Rural Districts	Total for the Province	TABLE 31.—MARRIA		Total for the Province

of Bridegrooms Total Under 16 11 18	188 188 188 394 409 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 409 110 110 120 120 130 140 150 160 160 170 180 190 190 190 190 190 190 190 19
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ace	Posses-	Other	4 1 1 2 0 0 0 0
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Birthplace		Other	
	sles	Scotland Wales	7 2 2 5 7 1 1 1 1 2 2 5 4 6 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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	British Isles	Ireland	11
		England	
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		Saskatchewan	8 1
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	181	8
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		des
nia	tates	Total Brides
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Italy Norway Norway Poland Roumania Russia Sweden Other ASIA China	United States Various	

Not Stated

Other sects

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		Oriental religions		
		United	2004 0004	1268
		United	2	251
		Unitarians	[-	60
		Vm1A	10	1.9
		Catholics	1001 0 0 4 0 0 1 0 0 0 0 0 0 0	941
H		Roman	0 225 112 1 1 1 1 1 1 1 1 1	755
932		Protestants	441 41 820 100 81 91 10 10 10 10 10 10 1	465
19		Presbyterians		32 4
ES,	Bride	Pentecostal		106
PARTIES				56 10
	Jo u			
CONTRACTING	Denomination	Lutherans	21 2	9 490
ACT	min	16ws		19
TR	enoi	Holiness		2
NON	D	Greek Orthodox	170971	215
0F (Greek	2009	281
		Friends		
[10]		Evangelicals		25
DENOMINATIONS		Disciples	11-111111111111111111111111111111111111	7
NOM		Church of Christ		21
DE		Science	H 20 H 100 H	15
S		Christians Christian	1 3	25
4GE		Втетриеп	1074 1	- 6
ARRIAGES		Baptists	23 3 2 1 1 8 3 3 1 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1	215
MAI			22 1 1 1 1 1 1 1 1 1	603 2
		Adventists	21 2	38
60	-	1 staitagub A		
TABLE				
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TABLE 35.—DIVORCES BY JUDICIAN DISTRICTS FOR THE YEAR 1932

Judicial Districts	Number of Divorces	Granted to Husband	Granted to Wife
Edmonton	64	28	36
Calgary	71	32	3.9
Medicine Hat	4	2	9
Lethbridge	7	3	4
Red Deer			
Wetaskiwin			
Camrose	1	1	
Stettler	-		
Hanna	Mindelle	_	
Macleod	_		
Peace River	1	1	
Grande Prairie	1	1	
Vegreville		_	
Total	149	68	81

DIVORCES IN ALBERTA SINCE THE PASSING OF THE ACT

Year	Granted to Husband	Granted to Wife	Total
1919	3	3	6
920	74	26	100
.921	53	37	90
922	80	49	129
923	57	32	89
924	6.6	53	119
925	59	42	101
926	79	75	154
927	83	66	149
1928	91	84	175
1929	77	71	148
930	64	87	151
931	69	8.7	156
932	68	81	149

TABLE 36.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS), BY MONTHS, 1932

					1		Mont	ths					
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Total for the Province:	738	69	78	74	55	52	57	65	55	50	69	63	51

TABLE 37.—BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) CLASSIFIED AS LEGITIMATE OR ILLEGITIMATE, 1932

	Tota	al bir	ths	Leg	itima	te	Ille	gitim	ate
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total for the Province	738	374	364	643	334	309	95	40	5 5

TABLE 38.—DEATHS OF INDIAN CHILDREN (EXCLUSIVE OF STILLBIRTHS) FROM CERTAIN SPECIFIED CAUSES IN FIRST YEAR OF LIFE, FOR EACH SEX, 1932

	Causes of Death	Total	Male	Female
ALL CA	USES	113	67	46
7	Measles	1	_	1
8	Scarlet fever	_	_	-
9	Whooping-cough	14	7	7
10	Diphtheria	_		
11	Influenza	2	_	2
23	Tuberculosis of the respiratory system	12	5	7
2.4	Tuberculosis of the meninges and central ner-			
	vous system	6	2	4
25-32	Tuberculosis, other forms	2 3	1	1
34	Syphilis	3	1	2
106	Bronchitis	2	2	
107	Bronchopneumonia		5	6
108, 109	Pneumonia	22	17	5
119	Diarrhoea and enteritis	5	3	2
157	Malformations	4	3	1
158	Congenital debility	6	6	
159	Premature birth	9	7	2
160	Injury at birth	1	1	
161	Other diseases peculiar to early infancy (under			
101	3 months)	1.0	6	4
176-198	Other external causes	2	1	1
199, 200	Unspecified or ill-defined causes	1		1

TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1932

			-										A	ges										
	CAUSES OF DEATH		Total	Under 1 yr.	l year	3 years	4 years	sassy 6-3	10-14 years	arsay el-di	20-24 years	25-29 years 30-34 years	35-39 years	40-44 years	45-49 years	50-54 years	55-59 years	60-64 years	65-69 years	70-74 years	80-84 years	85-89 years	90-94 years	95-99 years
DEATHS-	-A]	Total Male Female	405 212 193	113 67 46	26 1 13 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000	31 17 14	24	30	23 1 10 13	477	0 10 6 4 6 4 6 6	900	11 8 3	900	8-8	14	200	16	വനയ	10 to 60	10 C/ CO	1 1 2
LASS	CLASS I.—INFECTIOUS AND PARASITIC DISEASES	Total Male Female	226 122 104	40 16 24	8 8	<u>ω τυ ω</u>	422	23	22	25	19	000	8 4 4 9 6	8-8	2 7 3	2 - 3	2	44	44	82-	0 0		1 1	
1/-	Measles	Male	CO P	-	-			H				- <u> </u>		I	-]			-					1
00	Scarlet fever	:	-18	-		 						 									1 1			11
6	Whooping-cough	Male	11	t- t	m (П					1 1			
11	Influenza Total	Male	10	- 0	7 0	4 4	-			12	1				T		-	N	TH	-	11	11	11'	IT
	(a) Sole cause	Male	7	V	2	1	-			-	1 -					11	-	II	<u> </u>	-	7	1	-	11
	(b) With bronchitis		9			 		II		TT		1	11		H		-1	T		<u>_</u>		\ 		
	(c) With pneumonia	Female	1 9		 	1				1-			 	II		TT	-	12	1-	1 I	11	1		
	(d) With other respiratory diseases		- -		11	 				Ti				TI	11		11	T			11,	 		
	(e) With intestinal complications	Male	T C		110			II	1-			 		II		11	T		11	1				
13	Dysentery	ν : α	4 6		7 7			11				 			11		T	H			11			
10	Erysipelas	1)	7		7			7		-		11	[11		T	T	1 1	11	11		11
23-32	Tuberculosis	Total Male	91	00 0	l ro			-	11		00		ļ		19	1-	T	-	1 00			 		IT
62	Tuberculosis of the respiratory system	Male	717	N TO L	N co c	N 60 6	N c	40	- t- c	101	0 9 0	noo	4 H 0	2 2	N 90	0 - 0		1-	1 00	-	 			
24	Tuberculosis of the meninges and central nervous system	Male	0 1 0	- 67 -	1 27		I		2 67		9				7	7		<u> </u>			 		i	

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	20-24 years	<u> </u>	
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	10-14 years		1
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	CAUSES OF DEATH	Tuberculosis of the intestines and peritoneum Tuberculosis of the vertebral column Tuberculosis of the lymphatic system (mesenteric, retroperitoneal and bronchial glands excepted) (b) Disseminated tuberculosis, chronic Syphilis	
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III.—RHEUMATIC DISEASES, DISEASES OF NUTRITION AND OF THE ENDOCRINE Total GLANDS AND OTHER GENERAL DISEASESRapel Femal	Diabetes Rickets Other g	IV.—DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	1 (a) Pernicious anaemia	VI.—DISEASES OF THE NERVOUS SYSTEM Total AND OF THE ORGANS OF SPECIAL SENSE Male Fema	8 Encephalitis	(d)		(e)	VII.—DISE.	Chro		(a)
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TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE. FOR THE WHOLE PROVINCE, 1932—Continued

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(a) Hernia Male Female (b) Intestinal obstruction Female Male Female F THE GENITO-URINARY Total Male Female	Acute nephritis, including unspecified (under Male 10 years of age) Female Nephritis not specified (10 years and over) Female Male Male Diseases of the prostate Male Male	(a)	Female	Puerperal septicaemia (not specified as consequent upon abortion)	(c) Instrumental deliveryFemale		Cellulitis, acute abscess	 	Osteomyelitis Male	
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TABLE 39.—CAUSES OF DEATH OF INDIANS BY SEX AND AGE, FOR THE WHOLE PROVINCE, 1932—Continued

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		Total Male Female	Male Female Male	Total Male Female	Male Female Male Female Male Male Male	Male Female	Total Male Female	Male Female	Total Male Female	Male Female Male Female
	CAUSES OF DEATH	CLASS XIV.—CONGENITAL MALFORMATIONS	157 (c) Congenital malformations of the heart	CLASS XV.—DISEASES OF EARLY INFANCY	158 Congenital debility	161 (e) Other diseases peculiar to early infancy (under 3 months)	CLASS XVI.—SENILITY	162 (b) Without senile dementia (70 years and over) Female	CLASS XVII.—VIOLENT OR ACCIDENTAL DEATHS	175 Homicide

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	1931	23.57 7.02 16.32 69.38
-1932	1930	26.74 8.08 8.08 18.41 6.35 7.7 6.46
YEARS 1917-1932	1929	26.19 9.29 9.65 16.54 77.40
THE YEA	1928	24.79 9.12 9.12 15.79 76.50 6.75
FOR	1927	24.03 7.58 7.58 7.51 7.51 7.51 6.38
POPULATION	1926	23.79 7.40 1.5.31 81.63 5.82
	1925	25.02 7.27 7.27 16.16 72.90 5.76
PER 1,000	1924	24.74 7.50 8.30 16.42 82.40 6.18
KATES	1923	25.75 6.09 8.06 18.75 90.54
H, AND OTHER RATES	1922	26.44 6.99 17.83 91.93 6.68
TH, ANI	1921	27.89 7.92 19.50 85.65 7.24
IABLE 40 BIRIH, MAKKIAGE, DEAI	1920	26.72 93.77 93.70 8.38
MAKKIA	1919	23.95 7.30 9.33 14.62 110.30 6.44
-DIKIH,	1917 1918	25.72 6.98 13.86 11.86 107.10 5.51
	1917	27.01 8.54 8.09 18.92 87.30 6.48
IVI		Marriage Rate Marriage Rate Death Rate Rate of Natural Increase. Infamilie Death Rate (per 1,000 births) Puerperal Death Rate (per 1,000 births)

TABLE 41.—DEATHS AND DEATH RATES FROM PUERPERAL CONDITIONS, 1932

	Births	Deaths from Puerperai Conditions	Death Rate per 1,000 Births
Whole Province	16,990	64	3.76
City of Edmonton City of Calgary Small Cities Rural Districts	2,320 1,726 1,346 11,598	111 10 386	4.74 4.77 3.20 8.10

TABLE 42.—VITAL STATISTICS, 1905 TO 1932 INCLUSIVE

	Year	Births	Marriages	Deaths	Excess of Births over Deaths
1905		421	187	114	307
1906		3,003	927	1.091	1,912
1907		4.732	1,907	1,578	3,154
1908		5,973	2,032	2,188	3,785
1909	***************************************	6,897	2,384	2,662	4,235
1910		8,321	3,086	3.526	
1911	***************************************	8,813	3,630	3,618	4,705
1912		10,284	4,429		5,195
1913		11,871	5.053	4,232	6,052
1914		13,685		4,432	7,439
1915	***************************************	13,452	4,623	4,147	9,538
1916	***************************************		4,202	3,588	9,864
917	,	13,331	4,230	4,058	9,273
1918	***************************************	13,576	4,270	4,047	9,529
919	***************************************	14,890	4,048	7,924	6,960
920	***************************************	14,130	4,718	5,507	8,623
	***************************************	16,565	5,110	5,675	10,890
1921	***************************************	16,414	4,661	4,940	11,474
922	***************************************	16,163	4,272	5,281	10,882
923	***************************************	15,153	4,117	4,843	10,320
924		14,598	4,160	4,907	9,691
925	***************************************	15,014	4,363	4,717	10,29
926	***************************************	14,455	4,498	5,156	9,299
927	***************************************	14,897	4,707	5,059	9,838
928		15,692	5,776	5,699	9,993
1929	***************************************	16,924	6,004	6,239	10,685
1930		17,649	5,334	5,396	12,153
1931		17,252	5,142	5,302	11,950
1932	***************************************	16,990	5,054	5,521	11,469

POPULATION, BIRTH, MARRIAGE AND DEATH RATES, 1932

Population	740,000
Birth Rate per 1,000	22.96
Marriage Rate per 1,000	6.83
Death Rate per 1,000	7.46

RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to Births to of Females Deaths		Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	
901	1,081	3.55	1917	1,061	3.25	
902	1,010	2.59	1918	1,069	1.88	
903	1,056	2.95	1919	1,074	2.56	
904		3.04	1920	1,055	2.92	
905	1,059	3.11	1921	1,055	3.32	
906	1,094	2.07	1922	1,034	3.06	
907	1,075	2.96	1923	1.072	3.13	
908	1,077	2.73	1924	1,036	2.97	
909	1,086	2.59	1925	1,042	3.18	
910	1,065	2.69	1926	1,053	2.80	
911	1,103	2.43	1927	1,065	2.94	
912	1,084	2.43	1928	1.064	2.75	
913	1,053	2.67	1929	1.042	2.71	
914	1,081	3.30	1930	1,027	3.21	
915		3.47	1931	1,075	3.25	
916	1,063	3.29	1932	1,052	3.08	

DEATHS OF INFANTS UNDER ONE YEAR, DURING THE YEAR 1932

10 1,000 Births	58.68
To 1,000 Deaths from all Causes	180.40
Number of Stillbirths in Alberta	481

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